## Part 6 Space Mission Directions

- 1. Navigate out to the Google Classroom for this class.
- 2. Locate the Space Mission Part 6 assignment.
- 3. We are now ready to start adding code to our file. Using your Windows button menu, find and launch your IDLE program.



IDLE is the integrated development environment associated with Python. It is made up of a code editor where you type your code along with other helpful tools that allow you to write, save, and test run programs.

IDLE is designed to recognize Python code, compile Python code, and provide basic debugging tips to programmers if there are problems with their code.

4. Your IDLE window should look something like this once it has launched.:



On Startup, IDLE will display the Python Shell, which can be used to give commands to the computer's operating system. Since we are viewing the shell through IDLE and not the actual command prompt window, the commands that we type into the Shell will not communicate directly with our operating system. However, you can type similar commands in the Python Shell directly from the Python program (not through IDLE) and, if you have permission to access the operating system's commands, you can communicate with the computer's operating system that way.

In IDLE, the shell is mainly used as a launching screen for other activities that we will do, like writing code for our game or debugging a file.

5. Go to File > Open and then browse in the Starting Files folder I gave you to find the escape python file that we have been working on.

🗹 📴 escape	11/22/2021 8:34 AM	Python File	0 KB

- 6. Your escape.py file will open up.
- 7. Scroll and click at the end of Line 462.

```
if current room in scenery:
443
444
           for this scenery in scenery[current room]:
445
               scenery number = this scenery[0]
446
               scenery y = this scenery[1]
               scenery_x = this_scenery[2]
447
448
               room_map[scenery_y][scenery_x] = scenery_number
449
450
               image here = objects[scenery number][0]
451
               image width = image here.get width()
452
               image width in tiles = int(image width / TILE SIZE)
453
454
               for tile_number in range(1, image_width_in_tiles):
455
                   room map[scenery y][scenery x + tile number] = 255
456
457
      center_y = int(HEIGHT / 2) # Center of game window
458
       center x = int(WIDTH / 2)
      room pixel width = room width * TILE SIZE # Size of room in pixels
459
460
      room pixel height = room height * TILE SIZE
461
      top_left_x = center_x - 0.5 * room pixel width
462
       top left y = (center y - 0.5 * room pixel height) + 110
463
464
465 ################
466 ## GAME LOOP ##
```

9. Type the code you see on Lines 464 – 475 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is shown in the screenshot.

```
457
        center y = int(HEIGHT / 2) # Center of game window
458
        center x = int(WIDTH / 2)
459
       room pixel width = room width * TILE SIZE # Size of room in pixels
460
       room pixel height = room height * TILE SIZE
       top left x = center x - 0.5 * room pixel width
461
462
       top left y = (center y - 0.5 * room pixel height) + 110
463
464
       for prop_number, prop_info in props.items():
465
           prop room = prop info[0]
466
           prop_y = prop_info[1]
467
           prop x = prop info[2]
468
           if (prop room == current room and
469
                room map[prop y][prop x] in [0, 39, 2]):
470
                    room map[prop y][prop x] = prop number
471
                    image_here = objects[prop_number][0]
                    image width = image here.get width()
472
                    image width in tiles = int(image width / TILE SIZE)
473
474
                    for tile number in range(1, image width in tiles):
475
                        room_map[prop_y][prop_x + tile_number] = 255
476
477
478 #################
479 ## GAME LOOP ##
```

In the new code, we start by setting up a loop to go through the items in the props dictionary, which we haven't created yet. For each item, the dictionary key goes into the variable prop number, and the list with the position information goes into the list prop info (Line 464).

To make the program easier to read, I've set up some variables to store the information from the prop\_info list. The program extracts the information for the room number (and puts it into prop\_room variable on Line 465) and the y and x positions (which go into the prop\_y and prop\_x variables on Lines 466 and 467).

We add a check to see whether the prop\_room matches the room the player is in and whether the prop is sitting on the floor (Lines 468 and 469). The floor check puts the three different floor types in a list (0 for inside, 2 for soil, and 39 for the pressure pad in room 26). The program checks the prop's position to see what's in that location in the room map. If it's one of these floor types, it means the object is sitting on the floor in full view. If not, the prop is hidden inside an item of scenery and shouldn't be visible yet. For example, if a cabinet is in the prop's location instead of the floor, the prop won't be shown on screen. The player can still find the prop by examining the vabinet at that location, though.

If the prop is in the room and on the floor, the room map is updated with the prop number (Line 470).

Lines 471 – 473 calculate the image and the size of the prop being used.

Some props, like doors, are wider than one tile. We add the number 255 to any tiles that the prop covers other than the first one (Line 474). This is similar to the code we used to mark wide scenery earlier in the generate\_map() function.

 Uncomment all of the start\_room() functions by erasing the "#" at the beginning of each comment (Lines 543, 553, 563, and 573). The uncommented code is shown in the screenshot below.

```
535 # check for exiting the room
536
    if player x == room width: # through door on RIGHT
537
           #clock.unschedule(hazard move)
538
           current room += 1
539
           generate map()
540
          player x = 0 # enter at left
541
          player y = int(room height / 2) # enter at door
542
          player frame = 0
543
           start room()
544
          return
545
546
      if player x == -1: # through door on LEFT
547
           #clock.unschedule(hazard move)
548
           current room -= 1
549
           generate map()
550
           player x = room width - 1 # enter at right
551
          player y = int(room height / 2) # enter at door
552
          player frame = 0
553
           start room()
554
           return
555
      if player y == room height: # through door at BOTTOM
556
557
           #clock.unschedule(hazard move)
558
           current room += MAP WIDTH
559
           generate map()
560
           player y = 0 # enter at top
561
           player x = int(room width / 2) # enter at door
           player frame = 0
562
563
           start room()
564
           return
565
566 if player y == -1: # through door at TOP
567
           #clock.unschedule(hazard move)
568
           current room -= MAP WIDTH
569
           generate map()
570
           player y = room height - 1 # enter at bottom
571
           player x = int(room width / 2) # enter at door
572
           player frame = 0
573
           start room()
574
           return
```

#### 11. Click at the end of Line 574.

```
535 # check for exiting the room
       if player x == room width: # through door on RIGHT
536
537
           #clock.unschedule(hazard move)
538
           current room += 1
539
           generate map()
540
           player x = 0 # enter at left
541
          player y = int(room height / 2) # enter at door
542
          player frame = 0
543
           start room()
544
           return
545
546
      if player x == -1: # through door on LEFT
547
           #clock.unschedule(hazard move)
548
           current room -= 1
549
           generate map()
550
           player x = room width - 1 # enter at right
551
           player y = int(room height / 2) # enter at door
552
          player frame = 0
553
           start room()
554
           return
555
556
      if player y == room height: # through door at BOTTOM
557
           #clock.unschedule(hazard move)
558
           current_room += MAP WIDTH
559
           generate map()
560
           player y = 0 # enter at top
561
           player x = int(room width / 2) # enter at door
562
           player frame = 0
563
           start room()
564
           return
565
566
     if player y == -1: # through door at TOP
567
           #clock.unschedule(hazard move)
568
           current room -= MAP WIDTH
569
           generate map()
570
           player y = room height - 1 # enter at bottom
571
           player x = int(room width / 2) # enter at door
572
           player frame = 0
573
           start room()
574
           return
```

13. Type the code you see on Lines 576 – 590 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is being shown in the screenshot.

```
566
      if player y == -1: # through door at TOP
567
            #clock.unschedule(hazard move)
568
           current room -= MAP WIDTH
569
           generate map()
570
          player_y = room_height - 1 # enter at bottom
571
          player x = int(room width / 2) # enter at door
572
          player frame = 0
573
          start room()
574
          return
575
576
      if keyboard.g:
577
           pick up object()
578
      if keyboard.tab and len(in_my_pockets) > 0:
579
580
          selected item += 1
          if selected item > len(in_my_pockets) - 1:
581
               selected item = 0
582
          item carrying = in my pockets[selected item]
583
           display inventory()
584
585
      if keyboard.d and item carrying:
586
587
           drop object(old player y, old player x)
588
589
      if keyboard.space:
590
          examine object()
591
592
593
        # If the player is standing somewhere they shouldn't, move them back.
594
       if room map[player_y][player_x] not in items player may stand on: #\
```

Line 576 checks to see if the g key on the keyboard has been pressed. If it has, Line 577 executes the pick\_up\_object function.

Line 579 checks to see if the tab key has been pressed on the keyboard and the length of the in\_my\_pockets list variable is greater than 0. If this is true, the selected\_item variable (which we haven't created yet) will be increased by one (Line 580). Line 581 checks to see if the value of the selected\_item variable is greater than the length of the in\_my\_pockets list. If it is, than the select\_item variable will be reset back to 0 and the player will view the first item in the in\_my\_pockets list again (the item with the index value of 0) (Line 582).

Line 583 will create the item\_carrying variable and set its value to be equal to whatever item is currently selected (the selected\_item) from the in\_my\_pockets list.

Line 584 will run the display\_inventory function, which we haven't created yet.

Line 586 will check to see if the d key on the keyboard has been pressed and the item\_carrying variable is true. If both of these conditions are true, then the drop\_object method will run (Line 587) using the old\_player\_y and old\_player\_x coordinates that the program saved. We haven't written the drop\_object method yet.

Line 589 will check to see if the space key has been pressed on the keyboard.

Line 590 will run the examine\_object function (which we haven't written yet) if the space key has been pressed on the keyboard.

- 14. Ensure the "#If the player is standing..." comment is on Line 593.
- 15. Scroll and click at the end of Line 719.

```
712 def show_text(text_to_show, line_number):
713 if game_over:
714
             return
      text_lines = [15, 50]
box = Rect((0, text_lines[line_number]), (800, 35))
715
716
717 screen.draw.filled_rect(box, BLACK)
718 screen.draw.text(text_to_show,
719
                             (20, text lines[line number]), color=GREEN)
720
721
722
723 #################
724 ## START ##
725 ################
```

16. Press ENTER three times.

17. Type the code you see on Lines 723 – 742 of the screenshot below. Ensure your indentation, punctuation, and line spacing matches what is shown in the screenshot.

```
712 def show text(text to show, line number):
713
       if game over:
714
           return
715
      text lines = [15, 50]
716
       box = Rect((0, text lines[line number]), (800, 35))
717
       screen.draw.filled rect(box, BLACK)
718
       screen.draw.text(text_to_show,
719
                         (20, text lines[line number]), color=GREEN)
720
721
722
723 #################
724 ## PROPS ##
726
727 # Props are objects that may move between rooms, appear or disappear.
728 # All props must be set up here. Props not yet in the game go into room 0.
729 # object number : [room, y, x]
730 props = {
       20: [31, 0, 4], 21: [26, 0, 1], 22: [41, 0, 2], 23: [39, 0, 5],
731
732
       24: [45, 0, 2],
733
       25: [32, 0, 2], 26: [27, 12, 5], # two sides of same door
734
       40: [0, 8, 6], 53: [45, 1, 5], 54: [0, 0, 0], 55: [0, 0, 0],
735
       56: [0, 0, 0], 57: [35, 4, 6], 58: [0, 0, 0], 59: [31, 1, 7],
736
       60: [0, 0, 0], 61: [36, 1, 1], 62: [36, 1, 6], 63: [0, 0, 0],
737
       64: [27, 8, 3], 65: [50, 1, 7], 66: [39, 5, 6], 67: [46, 1, 1],
738
       68: [0, 0, 0], 69: [30, 3, 3], 70: [47, 1, 3],
739
       71: [0, LANDER Y, LANDER X], 72: [0, 0, 0], 73: [27, 4, 6],
740
       74: [28, 1, 11], 75: [0, 0, 0], 76: [41, 3, 5], 77: [0, 0, 0],
741
       78: [35, 9, 11], 79: [26, 3, 2], 80: [41, 7, 5], 81: [29, 1, 1]
742
        }
743
744
746 ##
        START
                ##
747 #################
```

Lines 723 – 725 create a new section of code called PROPS.

Lines 727 – 729 contain comments describing the props dictionary that you are about to create.

Lines 730 – 742 contains a listing of props that the player can manipulate in the game. They are listed by prop number. Their coordinates include the room number they start out in and their y and x positions. The props dictionary lists the position locations for all the props, starting with some doors (20 to 24) and including a rescue ship (40) and the carryable items starting at 53.

There is just one oddity to draw your attention to. We count doors as props rather than scenery, because they're not always there: when they're open, they're removed from the room. Most doors stay open when they're opened until the game ends. However, the door that connects rooms 27 and 32 can also shut, meaning players can see it from both sides. As a result, we need

two props to represent this door, showing it in the top of room 27 and the bottom of room 32. These two doors are object numbers 25 and 26.

Prop 71 is the Poodle lander, which crash landed on the planet surface before the game began. We use the LANDER\_Y and LANDER\_X variables from the VARIABLES section of code to position the lander, because its location will change with each new game. The Poodle landed with such force that it might have become covered with Martian soil. It lives in room 0 until the player can dig it up.

19. Type the code you see on Lines 744 – 753 of the screenshot below. Ensure your indentation, punctuation, and line spacing matches what is shown in the screenshot.

```
723 ################
724 ##
         PROPS
               ##
725 #################
726
727 # Props are objects that may move between rooms, appear or disappear.
728 # All props must be set up here. Props not yet in the game go into room 0.
729 # object number : [room, y, x]
730 props = {
731
        20: [31, 0, 4], 21: [26, 0, 1], 22: [41, 0, 2], 23: [39, 0, 5],
732
        24: [45, 0, 2],
733
        25: [32, 0, 2], 26: [27, 12, 5], # two sides of same door
734
        40: [0, 8, 6], 53: [45, 1, 5], 54: [0, 0, 0], 55: [0, 0, 0],
735
        56: [0, 0, 0], 57: [35, 4, 6], 58: [0, 0, 0], 59: [31, 1, 7],
736
        60: [0, 0, 0], 61: [36, 1, 1], 62: [36, 1, 6], 63: [0, 0, 0],
737
        64: [27, 8, 3], 65: [50, 1, 7], 66: [39, 5, 6], 67: [46, 1, 1],
738
        68: [0, 0, 0], 69: [30, 3, 3], 70: [47, 1, 3],
739
        71: [0, LANDER Y, LANDER X], 72: [0, 0, 0], 73: [27, 4, 6],
740
        74: [28, 1, 11], 75: [0, 0, 0], 76: [41, 3, 5], 77: [0, 0, 0],
741
        78: [35, 9, 11], 79: [26, 3, 2], 80: [41, 7, 5], 81: [29, 1, 1]
742
        ŀ
743
744 checksum = 0
745 for key, prop in props.items():
746
        if key != 71: # 71 is skipped because it's different each game.
747
            checksum += (prop[0] * key
748
                         + prop[1] * (key + 1)
749
                         + prop[2] * (key + 2))
750 print(len(props), "props")
751 assert len(props) == 37, "Expected 37 prop items"
752 print ("Prop checksum:", checksum)
753 assert checksum == 61414, "Error in props data"
754
755
756 ###############
757 ## START
                 ##
758 ####################
```

As with the scenery information, I've used a checksum on Lines 744 - 753 to help you spot whether you made an error entering the data. It might not be possible to play the game all the way to the end if a mistake is made here. The only prop missing from the checksum calculations is number 71, because its position uses different random numbers in each game.

20. Press ENTER three times.

21. Type the code you see on Lines 756 – 758 of the screenshot below.

```
744 checksum = 0
745 for key, prop in props.items():
       if key != 71: # 71 is skipped because it's different each game.
746
747
          checksum += (prop[0] * key
748
                        + prop[1] * (key + 1)
                         + prop[2] * (key + 2))
749
750 print (len (props), "props")
751 assert len(props) == 37, "Expected 37 prop items"
752 print("Prop checksum:", checksum)
753 assert checksum == 61414, "Error in props data"
754
755
756 in_my_pockets = [55]
757 selected item = 0 # the first item
758 item_carrying = in_my_pockets[selected_item]
759
760
761 ###############
762 ## START ##
763 ###############
```

Line 756 creates a list variable called in\_my\_pockets. This variable stores all the items the player has picked up, also known as their inventory.

One of these items is always selected, so the player is ready to do something with it. The selected\_item variable on Line 757 stores the currently selected item's index number in the in\_my\_pockets list.

The item\_carrying variable (Line 758) stores the object number of the item the player has selected. You can think of the item\_carrying variable as being the number of the object in their hands.

22. Press ENTER three times.

23. Type the code you see on Lines 761 – 774 of the screenshot below. Ensure your indentation, line spacing, and punctuation matches what is shown in the screenshot.

```
756 in my pockets = [55]
757 selected item = 0 # the first item
758 item_carrying = in_my_pockets[selected_item]
759
760
762 ## PROP INTERACTIONS ##
764
765 def find object_start_x():
766
     checker x = player x
767
     while room map[player y][checker x] == 255:
768
         checker x -= 1
769
     return checker x
770
771 def get item under player():
772 item x = find object start x()
     item_player_is_on = room_map[player_y][item x]
773
    return item player is on
774
775
776
777 ##################
778 ## START ##
779 #################
```

Lines 761 – 763 create another section of the code called PROP INTERACTIONS.

Line 765 creates a mew method called find\_object\_start\_x.

This function finds the start position of whatever object is at the player's position, going left to find the real object number if the location contains 255.

To do this, the function sets the variable checker\_x to be the same as the player's x position (Lome 766). We use a loop that keeps going for as long as the room map contains 255 at the x position of checker\_x and at the player's y position (Line 767). Inside that loop is a single instruction to reduce checker\_x by 1, moving 1 tile to the left (Line 768). When the loop finishes, checker\_x contains the left position where the object begins. That number is then sent back to the instruction that started the function (Line 769).

Line 771 creates another new function called get\_item\_under\_player.

This function works out which object is at the player's position. Line 772 uses the find\_object\_start\_x to find out where the object starts and stores the x position in the variable item\_x. Then it looks at the room map data for that position to see what object is there (Line 773) and sends that number back to the instruction that started the function (Line 774).

- 24. Press ENTER twice.
- 25. Type the code you see on Lines 776 788 of the screenshot below. Ensure your indentation, line spacing, and punctuation match what is being shown in the screenshot.

```
771 def get item under player():
772
       item x = find object start x()
       item player is on = room_map[player_y][item_x]
773
774
       return item player is on
775
776 def pick up object():
777
       global room map
778
       # Get object number at player's location.
779
      item player is on = get item under player()
780
      if item player is on in items player may carry:
781
            # Clear the floor space.
782
           room map[player y][player x] = get floor type()
783
           add object(item player is on)
784
           show text("Now carrying " + objects[item player is on][3], 0)
785
           sounds.pickup.play()
           time.sleep(0.5)
786
787
      else:
            show text("You can't carry that!", 0)
788
789
790
791
792 ################
793 ## START ##
794 #################
```

Line 776 creates another function called pick\_up\_object.

Line 777 establishes the room\_map variable as a global variable so that the function can access and modify it.

Line 778 contains a comment.

The function pick\_up\_object will start when the player presses the get key (G) to pick up an item. It begins by running the get\_item\_under\_player function to put the object number for the item at the player's position into the variable item\_player\_is\_on (Line 779).

If the item is carryable, the rest of the function picks it up by clearing the floor space, figuring out what the floor type should be, alerting the player that they are now carrying that particular object, and playing a sound. It also runs the add\_object function for the object in the item\_player\_is\_on variable, which we will create in the next few steps. Otherwise, it will display a message telling the player that they cannot carry that object (Line 788).

27. Type the code you see on Lines 790 – 797 of the screenshot below. Ensure your indentation and punctuation match what is shown in the screenshot.

```
776 def pick up object():
777
       global room map
778
       # Get object number at player's location.
779
       item_player_is_on = get_item_under_player()
780
       if item player is on in items player may carry:
          # Clear the floor space.
781
782
           room map[player y][player x] = get floor type()
783
           add object(item player is on)
784
           show text("Now carrying " + objects[item player is on][3], 0)
785
           sounds.pickup.play()
786
           time.sleep(0.5)
787
     else:
788
           show text ("You can't carry that!", 0)
789
790 def add object(item): # Adds item to inventory.
791
      global selected item, item carrying
792
     in my pockets.append(item)
793
     item carrying = item
794
      # Minus one because indexes start at 0.
795
     selected_item = len(in_my_pockets) - 1
796
      display inventory()
797
       props[item][0] = 0 # Carried objects go into room 0 (off the map).
798
799
801 ## START ##
```

Line 790 creates another function called add\_object. This function would require the item to be entered whenever it is called.

Line 791 establishes the select\_item and item\_carrying variables as global variables.

Line 792 appends whatever item the player is currently holding to the in\_my\_pockets list, effectively adding that particular item to the player's inventory.

Line 793 will set the value of the item\_carrying variable to whatever item was just added.

Line 794 contains a comment.

Line 795 sets the index value of the selected\_item variable to the length of the list minus 1, which would be the last item in the list, or whatever item was just added.

Line 796 will run the display\_inventory function, which we haven't written yet.

Line 797 will remove that particular item's image from the current room they are assigned and move that item to room 0 so that the item is no longer visible on the map.

- 28. Press ENTER twice.
- 29. Type the code you see on Lines 799 820 of the screenshot below. Ensure your indentation, punctuation, and line spacing match what is shown in the screenshot.

```
797
       props[item][0] = 0 # Carried objects go into room 0 (off the map).
798
799 def display inventory():
800
       box = Rect((0, 45), (800, 105))
801
       screen.draw.filled rect(box, BLACK)
802
803
       if len(in_my_pockets) == 0:
804
           return
805
       start_display = (selected_item // 16) * 16
806
       list_to_show = in_my_pockets[start_display : start display + 16]
807
808
       selected marker = selected item % 16
809
810
       for item counter in range(len(list to show)):
811
           item number = list to show[item counter]
812
           image = objects[item number][0]
813
           screen.blit(image, (25 + (46 * item counter), 90))
814
815
       box left = (selected marker * 46) - 3
816
      box = Rect((22 + box left, 85), (40, 40))
817
       screen.draw.rect(box, WHITE)
818
       item highlighted = in my pockets[selected item]
819
       description = objects[item highlighted][2]
820
       screen.draw.text(description, (20, 130), color="white")
821
822
824 ##
       START
                ±±
```

Line 799 creates a new function called display\_inventory.

The new display\_inventory function starts by drawing a black box over the inventory area to clear it. If the player isn't carrying anything, the function returns without taking any further action because there are no items to display. (Lines 800 – 804)

There is only room to show 16 items on the screen, but the player could carry many more items than that. If the in\_my\_pockets list is too long to fit on the screen, the program shows it 16 items at a time. The player can select any of the items shown on the screen by pressing the TAB key to move through them, from left to right. If the last item displayed is selected and they press TAB, the next chunk of the list is shown. If the player presses TAB on the final item in the list, the start of the list appears again.

We store the part of the in\_my\_pockets list currently displayed on the screen in another list called list\_to\_show and use a loop to display it. The loop puts numbers into a variable called item\_counter, which is used to extract the right image to draw each time, and also work out where to draw it.

The clever bit is working out which items should go into list\_to\_show. In the start\_display variable, we store the index number for the first item in in\_my\_pockets that the program should draw (Line 806). The // operator divides the select item number by 16, rounding down. The result is then multiplied by 16 to get the index number for the first item in the batch. For example, if the selected item is number 9, you'll divide 9 by 16, round down, and then multiple by 16, getting a result of 0. That's the start of the list, which makes sense, because we know there's room for 16 items onscreen and that 9 is less than 16. If you wanted to see the group of items that includes item 22, you'd divide 22 by 16, round down, and multiply by 16. That's the start of the next batch, because the first batch has index numbers that range from 0 to 15.

We create the list\_to\_show list (Line 807) using a technique called list slicing, which is simply using just a part of a list. When you give Python two list indexes with a colon between them, the program will cut out that part of the list. The section we're using starts at the start\_display index and finishes 15 items later. A list slice leaves out the last item, so we use start\_display + 16 as the end point.

We also need another calculation to work out which item to highlight as the selected item from the new list. The item will have an index between 0 and 15, and we'll store it in selected\_marker variable (Lines 808). We calculate it as the remainder after we divide the selected item number by 16. For example, if the selected item is number 18, it will be at index number 2 when the second group of items is displayed. Python has the modulo operator %, which you can use to get the remainder after a division.

As mentioned earlier, Lines 810 – 813 create a "for" loop to display the items in the list\_to\_show list variable on the screen. This loop will loop through each item in the list\_to\_show list to extract the proper image (Line 812) and to display the proper image at the appropriate location (Line 813).

To highlight the selected item on the screen, we draw a box around it using a Rect positioned at its left edge (Lines 815 - 816). Unlike the filled rectangle you've seen, this instruction draws a hollow box with a white edge (Line 817).

Lines 818 – 820 extra information from the selected item to find its description in the objects dictionary (the item with the index value of 2 from the objects dictionary). The description for the selected item is displayed underneath the inventory, so players can TAB through their items to read their descriptions again.

31. Type the code you see on Lines 822 – 835 of the screenshot below. Ensure your indentation and punctuation match what is shown in the screenshot.

```
815
       box left = (selected marker * 46) - 3
816
       box = Rect((22 + box left, 85), (40, 40))
817
       screen.draw.rect(box, WHITE)
818
       item highlighted = in my pockets[selected item]
819
       description = objects[item highlighted][2]
820
       screen.draw.text(description, (20, 130), color="white")
821
822 def drop object(old_y, old_x):
      global room map, props
823
824
       if room map[old y][old x] in [0, 2, 39]: # places you can drop things
825
           props[item carrying][0] = current room
           props[item_carrying][1] = old y
826
827
           props[item carrying][2] = old x
828
           room map[old y][old x] = item carrying
829
           show text("You have dropped " + objects[item carrying][3], 0)
830
           sounds.drop.play()
           remove object(item carrying)
831
           time.sleep(0.5)
832
833
       else: # This only happens if there is already a prop here
834
            show text("You can't drop that there.", 0)
835
           time.sleep(0.5)
836
837
839 ##
       START ##
840 ################
```

Line 822 creates a new function called drop\_object. This function will require the old\_y and old\_x variables to be entered when it is called.

Line 823 establishes the room\_map and props variable as global variables.

The drop\_object function needs two pieces of information: the player's old y and x positions. If the player moved through the wall function, this will be the position they were in before they tried to move. If not, these numbers will be the same position as where they currently are. We know this is a sensible place to drop an item that won't put the object inside a wall. The player's old position goes into the variables old\_y and old\_x within this function.

The program checks whether the room map at the player's old position is a type of floor (Line 824). If so, it's okay to drop a prop here, so the drop instructions are used. If not, the player sees a message telling them they can't drop objects there (Line 833). This will happen, for example, if there is already a prop in that position.

If the player can drop the item, we need to update the props dictionary. The variable item\_carrying contains the numbers of the object the player is carrying. Its entry in the props dictionary is a list. The first list item (index 0) is the room the prop is in. Line 825 will update this to the current room where the prop was dropped. The second item (index 1) is its y position,

and the third item is its x position (index 2). Lines 826 - 827 will update the y and x position of the prop to be the player's old position.

The room map for the current room also needs to be updated, so the room contains the dropped item (Line 828). The game will show a message and play a sound to tell the player that they've successfully dropped something and then the item is removed from the inventory using the remove\_object function (which we haven't written yet) (Lines 829 – 831). The game will also pause for half a second.

- 32. Press ENTER twice.
- 33. Type the code you see on Lines 837 847 of the screenshot below. Ensure your indentation and punctuation match what is shown in the screenshot.

```
822 def drop object (old y, old x):
       global room map, props
823
824
       if room map[old y][old x] in [0, 2, 39]: # places you can drop things
825
           props[item carrying][0] = current room
826
           props[item carrying][1] = old y
827
          props[item carrying][2] = old x
828
           room map[old y][old x] = item carrying
           show text("You have dropped " + objects[item carrying][3], 0)
829
830
           sounds.drop.play()
831
           remove object(item carrying)
832
           time.sleep(0.5)
833
      else: # This only happens if there is already a prop here
834
           show text("You can't drop that there.", 0)
835
           time.sleep(0.5)
836
837 def remove object(item): # Takes item out of inventory
838 global selected item, in my pockets, item carrying
      in my pockets.remove(item)
839
840
      selected item = selected_item - 1
      if selected item < 0:</pre>
841
842
           selected item = 0
843
      if len(in my pockets) == 0: # If they're not carrying anything
844
           item carrying = False # Set item carrying to False
845
      else: # Otherwise set it to the new selected item
846
           item carrying = in my pockets[selected item]
847
       display inventory()
848
849
850 ##################
851 ## START ##
```

Line 837 creates a new function called remove\_object. This function will require the item to be input whenever it is called.

Line 838 makes the selected item, in\_my\_pockets variable list, and item\_carrying variables into global variables.

Line 839 uses the remove function to remove that particular item from the in\_my\_pockets list. If the player has dropped the item, it needs to be removed from their inventory.

Line 840 will update the selected item variable by decreasing it by 1.

Line 841 will check to see if the selected\_item variable's value is less than 0. If so, Line 842 will set the selected\_item variable to 0.

Line 843 will check to see if the length of the in\_my\_pockets list is equal to 0. If this is true, Line 844 will set the value of the item\_carrying variable to False because the player doesn't have anything in their inventory.

If neither of the above conditions are true (the selected\_item variable's value is more than 0 and the in\_my\_pockets list is longer than 0), the item\_carrying variable will be set to be equal to the selected\_item from the in\_my\_pockets list.

Line 847 will display the updated inventory on the screen using the display\_inventory function.

35. Type the code you see on Lines 849 – 866 of the screenshot below. Ensure your indentation and punctuation match what is shown in the screenshot.

```
837 def remove object(item): # Takes item out of inventory
838
       global selected item, in my pockets, item carrying
      in my pockets.remove(item)
839
      selected item = selected item - 1
840
      if selected item < 0:
841
842
           selected item = 0
843
      if len(in my pockets) == 0: # If they're not carrying anything
844
           item carrying = False # Set item carrying to False
845
      else: # Otherwise set it to the new selected item
846
           item carrying = in my pockets[selected item]
847
      display inventory()
848
849 def examine object():
850
      item player is on = get item under player()
       left tile of item = find object_start_x()
851
852
      if item player is on in [0, 2]: # don't describe the floor
853
           return
854
      description = "You see: " + objects[item player is on][2]
855
      for prop number, details in props.items():
856
           # props = object number: [room number, y, x]
857
           if details[0] == current room: # if prop is in the room
               # If prop is hidden (= at player's location but not on map)
858
859
               if (details[1] == player y
                   and details[2] == left tile of item
860
861
                   and room map[details[1]][details[2]] != prop number):
862
                   add object (prop number)
863
                   description = "You found " + objects[prop number][3]
864
                   sounds.combine.play()
      show text(description, 0)
865
866
       time.sleep(0.5)
867
868
870 ## START ##
871 #################
```

Line 849 creates another function called examine\_opbject.

We start by getting the number of the object the player wants to examine and storing it in item\_player\_is\_on variable (Line 850). At this point in the game\_loop function, the player's position will be on or possibly inside the item they want to examine, if it's a piece of scenery. We use the find\_object\_start\_x function to find the starting x position of the object and put the starting x position of the item into the variable left\_tile\_of\_item (Line 851). If there isn't an object to examine at the player's location, the function finishes without taking any further action (Lines 852 – 853). Ignoring an empty space feels more natural than describing the floor, especially if you make a mistake with the controls. If there is an item at the player's location, the description of the object goes into the description variable, taken from the long description from the objects dictionary (Line 854).

The program then checks whether there's an item hidden inside the item the player is examining. We use a loop to go through all the items in the props dictionary (Line 855). If an item is in the current room at the player's position, but the room map at that position doesn't contain the prop number, it means the item is hidden (Lines 857 - 861). We therefore add the hidden object to the player's inventory (Line 862) and give the player a message that tells them they found something (Line 863). This message uses the object's short description to tell them what they've found. We also play a sound (Line 864).

At the end of the function, the description is shown (Line 865) and we've put a short pause here (Line 866) to stop it being immediately overwritten if the player holds the key down.

```
36. Ensure the "START" comment runs on Lines 869 – 871 of the code.
```

```
837 def remove object (item): # Takes item out of inventory
      global selected item, in my pockets, item carrying
838
839
      in my pockets.remove(item)
840
      selected item = selected item - 1
841
      if selected item < 0:</pre>
842
          selected item = 0
843
      if len(in my pockets) == 0: # If they're not carrying anything
844
           item carrying = False # Set item carrying to False
845
      else: # Otherwise set it to the new selected item
846
           item carrying = in my pockets[selected item]
847
      display inventory()
848
849 def examine object():
      item player is on = get item under player()
850
851
      left tile of item = find object start x()
852
      if item player is on in [0, 2]: # don't describe the floor
853
           return
854
      description = "You see: " + objects[item player is on][2]
855
      for prop number, details in props.items():
856
           # props = object number: [room number, y, x]
857
           if details[0] == current room: # if prop is in the room
               # If prop is hidden (= at player's location but not on map)
858
859
               if (details[1] == player y
860
                  and details[2] == left tile of item
861
                   and room map[details[1]][details[2]] != prop number):
862
                   add object (prop number)
                   description = "You found " + objects[prop number][3]
863
864
                   sounds.combine.play()
865
      show text(description, 0)
866
      time.sleep(0.5)
867
868
870 ## START ##
```

37. Click at the end of Line 875.

### 38. Press ENTER.

39. Type the code you see on Line 876 of the screenshot below.

Line 876 uses the clock.schedule\_unique function to run the display\_inventory method just once, after a delay of 1 second.

40. Go to File > Save to save your code.

## Final Code:

1	1 Escope
ŝ	intoir line yordon math
5	
1	*************
	***********
10 A 10	WIDTH = 500 #window size MEIGHT = 500
	BEAVER martialized
	PLAYER NAME = "Alloe"
1	FRIENDL NAME = "Jack"
6	current room = 31 # start room = 31
	ton left x = 100.
de la	top_left_y = 150
	<pre>DENC_DEJECTS = [images.floor, images.piller, images.soil]</pre>
11 11	LANDER_SEDITOR = random.randinn(1, 19) LANDER_X = random.randinn(2, 11) LANDER_Y = random.randinn(2, 11)
	TILE_SIZE = 30
3	player_y, player_m = 2, 6
10	pars_over = Telse
	FLAYER = 4
12 14 15	"left": [images.spacesuit_left_] images.spacesuit_left_], images.spacesuit_left_2, images.spacesuit_left_3, images.spacesuit_left_4
	1
法法	<pre>images.spaceouit right 2, images.spaceouit_right_S, images.spaceouit_right_4</pre>
2	1, "up": fimages,spacesuit back, images,spacesuit back 1,
12	images.spacesuit back 2, images.spacesuit back 3,
	images.spacesuit_back_4
1	"down": [images.spacesuit_front, images.spacesuit_front_1,
3	images.spacesuit_front_2, images.spacesuit_front_3, images.spacesuit_front_4
	1
	and the second
	player_direction = "down" player_frame = 0
	player_image = FLAYER(player_direction)(player_frame)
4	player_offset_m, player_offset_y = 0, 0
se.	PLAYER_SHADOW = (
	*left": [Images.spacewit left_ihadow, images.spacewit_left_i_shadow, images.spacewit_left_i_shadow, images.spacewit_left_i_shadow, images.spacewit_left i shadow
60 (1)	bi dente deserverit wight shadou, images assessed wight ! abadeu
iż,	images.spacesuit_right_2_shadow,
13	images.spacesuit_right_3_shadow, images.spacesuit_right_3_shadow
59	"mp") [Images.spacesuit_back_shadow, images.spacesuit_back_1_shadow,
	images, spacesult back 2 shadow, images, spacesult back 3 shadow, images, spacesult back 3 shadow
1	1,
	images.spacesuit front 2 shadow, images.spacesuit front 3 shadow,
	images.spacesuit_front_3_shadow
15	
74	player image shadow = PLANCE SHADOWINGoup"[10]
1	territer and an and a set of the
	PILLARS = { insers.pillar, images.piller 95, images.pillar 80,
29	images.pillar_60, images.pillar_50
	wall transparency frame = 0
	na an thus no second state and the second stat
	BLOE = (0, 155, 355)
	YELLOW = (255, 255, 0)
18	082E3 = (0, 255, 0)
10	RED = (128, 0, 0)
11	
10	ST NAP IS
4	**********
	HAP WIDTH = 5
17	MAP MEIGHT = 10
98) 99	MAP_SIZE = MAP_WIDIR + HAP_HEIGHT
	SAME_MAR = [ ["Roum 0 - where unused objects are wept", 0, 0, False, False] }
	putdoor rooms = range(1, 26)

101 outdoor\_room = range(1, 26) [00] for planetsectors (in range(1, 26); froms 1 to 15 are generated here [00] GANE\_NGP.append( [\*The dusty planet surface\*, 19, 13, True, True] ) [00]

	CARE THE TT I
	er woon name, seigne, woon, top exter, signe enter;
	"The engineering lab", 13, 13, Talan, Talani, # room 17
	["Boodle Mission Control", 9, 13, False, True], # room 20
	["The viewing gallery", 9, 16, Balse, Salse], # room 26
	["The orew's bathroom", 5, 5, false, False], \$ room 30
1	Plant allow south & Thus allow a control
	["Right elbow coom", 7, 13, True, True], \$ room 33
ė.	["The science lab", 13, 13, False, True], \$ roum 34
	["The greenhouse", 13, 13, True, Salse], \$ room 36
	[PLATER MAME + "" # slamping quarters", 9, 11, Faire, Taire], # room 36
	["The bylefing com", 7, 13, Value, Truel, \$ room 38
	["The prew's community room", 12, 13, True, False], # room #5
2	["Hain Mission Control", 14, 14, Talde, Faire], # zoom 40
	["The side hay", 12, 7, True, Talas], # room 41
	("Unilizies control noos", 9, 9, Fales, True), # noom 49
5	["Systems engineering Day", 9, 11, False, False], # room 44
	["Security portal to Mission Control", 7, 7, True, False], # room-45
	(FRIEND) NAME + "'s slawping quarters", 9, 11, 7000, 10001, 8 room 47
	["The pipeworks", 18, 11, True, False], # coom 48
	["The chief edientist's office", 9, 7, True, True], \$ room 65
	["ine robot workward", w, it, true, sermed # room so
	4
	#simple samity obeck on map above to check data entry
É	assert len(GAME_MAR)-1 == MAR_SILE, "Hap sire and GAME_MAR dob'n match"
	***********
	SS OBJECTS SS
	chianty = /
ą	0: (images.floor, Hope, "The floor is shiny and clean"),
	1: [images.pillar, images.full_shadow, "The wall is smooth and cold"],
1	2) [images.soil, None, "It's like a desert. Or should that he desert?"],
	2: [images.pillef_low, images.half_shadow, "The wall is smooth and colls"], 4: [images.hed, images.half_shadow, "A tidy and configurable had"].
	5: [images.table, images.half shadow, "It's made from strong plastic."].
	6) [images.chair_left, None, "A chair with a soft cushion"],
1	7: [images.chair_right, Home, "A chair with a soft cushion"],
	5: [Images.bookcase_tall, images.full_shadow, "Norkehalmes, starked with reference books"].
-	5) [images.bookcase small, images.half shadow,
	"Bookshelves, stacked with reference books"],
-	10: [images.cabinet, images.half_shadow,
	"A small locker, for storing personal items"].
5	"A computer. Use it to run life support disgnostios"),
	12) [images.plant, images.plant_shadow, "A spaceberry plant, grown here"],
	13: [images.electricall, images.half_shadow,
	16: Dimense electrical2, images half shadey.
4	"Electrical systems used for powering the space station"],
	16: [inages.doctus, images.doctus_shadow, "Ouch! Careful on the contus!"],
4	16) [images.shrub, images.shrub_shadow,
	"A space lettuce. A bit limp, but amazing it's growing here!"),
8	17: [images.pipes], images.pipesi_shadow, "Water purification pipes"], 18: [images.pipes], images.pipesi_shadow.
	"Fipes for the life support systems"],
	19: [images.pipes3, images.pipes3_shadow,
	"Pipes for the life support systems"],
	To: Inages.coor, inages.coor shadow, "safety door, opens accomptionity (
6	21: [images.door, images.door shadow, "The sirinch door. \
6	For safety reasons, it requires two person operation.*],
	221 [Images.door, images.door_shadow, "A locked door. It meeds " \
	23: finaces.door. inaces.door shadow. "A locked door. It meeds " \
	+ FRIENDI_HAME + "'s access card"),
	24) [images.door, images.door_shadow, "L locked door, It meeds " \ provide the state of the second secon
	15: finance.door. images.door shadow.
į,	"A locked door. It is opened from Hain Mission Control"],
Ð	26: [images.door, images.door_shadow,
	<pre>"# iooken door in the engineering bay."}, 271 [images.wan, images.full shadow.</pre>
é	"The soreen says the orach site Use Sectors " \
0	+ str[LANDER_SECTOR) + * // X: * + str(LANDER_X) + \
	1/ TI + sts [LANCER_Y]].
	"A rook. Its costs surface feels like a whetstone", "the rock").
ā	19: [images.rock_small, images.rock_small_shadow,
3	"A small but beavy piece of Martian rock"],
	201 [images.crater, Hone, "A crater in the planet surface"], 31; [images.fence. Source.
	"A fine goute fence. It helps protect the station from dust storms"],
a	32: [images.contraption, images.contraption_sbadow,
	"One of the scientific experiments. It gently vibrates"],
	"A robot arm, used for beavy lifting"].
	\$4) [images.toilet, images.Malf_shadow, "A sparkling clean toilet"],
	35: [images.sink, None, "A sink with running water", "the tops"],
1	36: [images.globe, images.globe_shadow, "I many plobe of the planet. It must be ploan from improved."
1	371 (images.solence lab table, None,
	"A table of experiments, analyzing the planet soil and dust"),
	38: [images.vending_machine, images.full_shadow,
	"A wending machine. It requires a tradit.", "the wending machine"], 35: [imaces.floor mad. Home.
	"A preseave sensor to make sure acbody goes out slope."1.
	40: [inages.resoue_ship, images.resoue_ship_shadow, "A resour ship!"],
	fl: [images.wission_control_desk, images.wission_control_desk_shadow, \
g	42: Timaces, button, images, button shadow.
ŝ	"The button for opening the time-locked door in engineering.").
	13: [images.whiteboard, images.full_sbadow,
	"The whiteboard is used in brainstorss and planning meetings."],
	"The window provides a view out onto the planet surface."].
	46: [images.yobot, images.tobot_shadow, "& cleaning robot, tarned off."],
	161 [images.robot2, images.robot2_shadow,
1	47: Timaces.rocket, images.rocket shades. "I manufactor draft in provident
1	45: [images.toxic floor, Mine, "Toxic floor - do not walk on!"],

	10: [images.drone, ball, Wins, "A serievery bill - decomposition."].
	DUI LERGER, BIEZOV DELL, BILL BIELDV DELL - DECOMPTING
	51 Jiwaras anaton ball? Hone "On anaton ball a demonstration
	51: [Images.energy_Dall2, Note, "An energy ball - dengerous"],
	521 [Images.computer, Images.computer_Station,
	"A computer workstation, for managing space station systems."],
	bit clinicated formers has confine as to 1 file clinicated
	A comparison of the set of the se
	out [Inages.nutrie gas, note,
	"A piece of sticky bubble dux, spaceberry riscour,", "bubble dus"
	sei [Images. yoyo, mone, "A coy made or rise, strong string and plastic
	used for antigrav experiments.", PLATER MARE + "'s yopo"],
	56: [images.thread, Gome,
	"A piece of fine, string string", "A piece of string"],
	s7) [Images.needle, Mone,
-11	"A sharp needle from a macrum plant", "a cactum needle"),
11	38: [Images.threaded_meedle, done,
42	"A cactus maedia, spearing a length of string", "needle and strin
2.1	59: [images.canister, None,
44	"The six conjecter has a leak,", "a leaky air conject"),
249	601 [isages.canister, None,
36	"It looks like the seal will hold:", "a sealed all canister"],
97	61: [images.mirror, Minne,
ani	"The mirror throws a sincle of light on the wells.", "a mirror"],
23	62: [images.bin_empty, None,
	"A rarely used bin, wade of light plastic", "a bin"].
	est insages.oin_Tull, Hone,
	"A beavy him full of water", "a bim full of water"],
	64: [images.regs, Norw,
54	"An oily ray. Fick is up by one corner if you must!", "en oily ra
	65) [images.hammer, None,
	"A hammer. Maybe good for cracking things open", "a hammer"],
	66: [images.spoon, hows, "A large serving spoon", "a spoon"],
	67: [images.food_pouch, Hone,
	"A dehydrated food pouch. In needs water.", "s dry food pack"],
ni)	681 [images.food, Noos4
11	"A food pouch. Gee in to get 100% energy.", "ready-to-eat food").
62	69: [images.book, None, "The book has the words "Bon't Famic" on the \
10	nover in large, friendly latters", "a book");
24	T0: [images.mp3_player, Hnne,
65	"Am MPS player, with all the latest times", "am MPS player"],
844	711 [images.lander, None, "The Foodle, a small space emploration craft
51	Its block box has a radio seeled inside.", "the Poodle Lander"],
×11	72: [inages.radio, Sons, "A mailo communications system, from the \
81	Poodle", "a communications zadio"),
	73: [images.gps_module, None, "A GFS Module", "a GFS module"],
71	74) [images-positioning system, Hone, "Part of a positioning system, A
	Needs a GES module.", "a positioning interface"],
73	75: [images.positioning_system, Huns,
74	"A working positioning system", "a positioning computer"],
73	76: [images.acissors, Hone, "Scissors. They're not blunt to out \
24	shything. Can you sharpen thes?", "blunt solssons"],
	TT: [images.scissors, Bone,
	"Razor-sharp scissors, Careful!", "sharpened scissors"),
7.8	76: [images.credit, Home,
	"A small coin for the station's wonding systems".
	"a station predit"].
	79) limages, access card, Nure,
	"This access card belongs to " + PLATER NAME, "an access card").
	50: lineces arrest card, line,
14	"This access card belance to " + FRIENDI HAME, "an access card" ].
24	"This access card belongs to " + FRIENDL_HAME, "an access card"], Bir (imares, access card, Sone,
29 25 25	"This screep card belongs to " + FRIEND_MANE, "an access card"], 51: [inages.access_card, None, "This access_card, Done,
104 105 105 105	"This access card balange to " + FRIEND_HAME, "an access said"), Sir (mages access card, Been, "This access tard belongs to " + FRIEND_HAME, "an access tard") 1
10 4 10 5 10 5 10 5 10 5 10 5 10 5 10 5 10 5	"This access card belongs to " + FRIEND_HAME, "an access card"], Sic (images, sccess_card, Room, "This access card belongs th " + FRIEND2_HAME, "an access card"] ]
104 105 105 105 105 105	"This access card beings to " + TRIEND_[MAR, "an access said"]. 1: [images access card, here," "This access tard belongs to " + TRIEND_[MAR, "an access tard"]. ] ] items player may carry = list(mance(5), 82))
14 15 10 10 10 10 10 10 10 10 10 10 10 10 10	"This arress card beings to " + FAIDDL_HAME, "an arress hard"), bit image, cosse_set(, fee, "This arress rand belongs to " + FAIDDL_HAME, "an arress rand") } ltems phayes pay_oary = listicage(6), 80) + Madera below as for flow, pressure pat, soil, tmain floor.
104 104 105 105 105 105 105 105 105	This access card beings to " + FRIDE_LMAR, "en access card"; 1: [inger, cosse card, beings to " + FRIDE_LMAR, "en access card"; - This access card beings to * FRIDE_LMAR, "en access card"; - (
145 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>"This arress card beings to " + FAIDDL_HAME, "en arress nat"), b1: [ineq:.coss_card, here, "This arress trait belongs to " + FAIDDL_HAME, "en arress rati") ] 1:ress player pay_cary = list(range(5), 50) 4 Machene being ars for flows, greessree ped, seil, tmair floor. 1:ress_player_pay_stand_on = 1:ress_player_pay_carry = [0, 39, 2, 40]</pre>
1911 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	This access coad beings to " + FRIDD_LBANK. "An access rand"). 11: [inge: coase_coad, beings to " + FRIDD_LBANK. "An access rand"). 1 1 1 1 1 1 1 1 1 1 1 1 1
19 11 00 10 10 10 10 10 10 10 10 10 10 10	<pre>"This arress card beings to " + FRIDDL[MAME, "en arress nat"], b1: [inge, cores_ref.[mes] "This arress incl belongs to " + FRIDDL[MAME, "en arress rate"], ] ! from player may provide the interplayer of arrive player for the interplayer may provide on a terms player may restry = [0, 39, 2, 40] transplayer may stand_on = terms player may restry = [0, 39, 2, 40] transplayer may stand_on = terms player may restry = [0, 39, 2, 40]</pre>
1931 001 009 000 00 00 00 00 00 00 00 00 00 00 0	This arrest cost beings to " + FRIDD_UMME, "an arrest hard"). 11: [inge: costs_cost [not, not, not, not, not, not, not, not,
14 10 10 10 10 10 10 10 10 10 10 10 10 10	This access cool beings to " + FRIDE(_MARK, "en access cool"). 11: [inger, coose cool for [and, " + FRIDE(_MARK, "en access cool"). 1 = [inger, cool of the second secon
日本 かけるまのななる 手手手 ひつ	<pre>"This arress card beings to " + FRIDD_UMME, "en arress hard"; b: [inge, coss_card, fee, "This arress card belongs to " + FRIDD_UMME, "en arress tard"; ] ices player ps_cary = list(nage(8), 80) * Subset below as for floor, pressure pst, soil, twin floor. ices player_ps_ms_stad_on = ices player_psy_carry + [0, 39, 2, 80] ************************************</pre>
	This access could beings to " + FRIDE_LMAR, "an access hard"). It: [inge, course could beings to " + FRIDE_LMAR, "an access hard"). I also access and beings to " + FRIERC_MAR, "an access hard". I complete any output of the interpretation and access hard to be interpretations for floor, pressure pair, soil, insid floor. I complete any output of the interpretation and access hard to be if occess for floor access to be access hard to be access for the interpretation access for floor. I complete access to be access to be accessed and access to be accessed access for the interpretation access for the interpretation access.
099 000 000 000 000 000 000 000 000 000	This access cool beings to " + FRIDE_LBADE, "an access cool", 1: [inger, coose, cool (not, not, " + FRIDE_LBADE, "an access cool", 1 1: This access cool beings to * FRIERS_BADE, "an access cool", 1: [inger, cool of the floor, preserve pad, suil, their floor. 1: [inger, preserve, and the floor, preserve pad, suil, their floor. 1: [inger, preserve, and the floor, preserve pad, suil, their floor. 1: [inger, preserve, and the floor, preserve pad, suil, their floor. 1: [inger, preserve, and the floor, preserve pad, suil, their floor. 1: [inger, preserve, and the floor, preserve pad, suil, their floor. 1: [inger, preserve, and the floor, preserve pad, suil, the floor. 1: [inger, preserve, preserve, padding, preserve, padding,
10 8 10 8 10 8 10 8 10 8 10 8 10 1	This arrest cost beings to " + FRIDD_LBMM, "en arrest hard"; 11: [inge, cost, cost, feed, feed, "This arrest cost belongs to " + FRIDD_LBMM, "en arrest hard"; 1 1 * Roberts belongs and belongs to " + FRIDD_LBMM, "en arrest nord"; 1 * Roberts belongs are for floct, presente pai, soil, their floor. * restrictions of a for floor present pai, soil, their floor. * restrictions of a for floor present pai, soil, their floor. * soil present of a for floor present pai, soil, their floor. * soil of a for floor a for floor present pai, soil, their floor. * soil of a for floor a for floor present pair and a for a
10 9 10 9 10 9 10 9 10 9 10 9 10 9 10 9	This access cool beings to " + FRIDE_LMAR, "an access man"). 1: [inger, coose and beings to " + FRIDE_LMAR, "an access man"]. This access must belongs to + FRIDEC_LMAR, "an access man"]. 1: Code Diagon and for Diagon pressure put, will, takin floor. 1: Source Diagong my_sharp [n = sime_linger_may_carry = [0, 39, 2, 49] 1: Source Diagong my sharp [n = sime_linger_may_carry = [0, 39, 2, 49] 1: Source Diagong diagong that cannot move between rooms. 1: Code ([codect mandet, y position]] 2: Compary = ([codect mandet, y position, a position]]
109 109 100 100 100 100 100 100 100 100	<pre>"This arrest cost beings to " + FRIDD_UMME, "en arrest hard"; 11: [inge.cost_arrest, Bene, "This arrest cost_arrest, Bene, "This arrest cost belongs to " + FRIDD_UMME, "en arrest mard"; 1 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_stad_on = items player_may_costry + [0, 39, 2, 40] 1: See player_may_costry + [0, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1</pre>
11 1 1 1 1 2 2 3 9 3 2 2 3 4 5 5 1 7 9 5 0 0 1 2 2 3 4 5 5 1 7 9 5 0 0 1 2 2 3 4 5 5 1 7 9 5 0 0 1 2 2 3 4 5 5 1 7 9 5 0 0 1 2 2 3 4 5 5 1 7 9 5 0 0 1 2 2 3 4 5 5 1 7 9 5 0 0 1 2 2 3 4 5 5 1 7 9 5 0 0 0 1 2 2 3 4 5 5 1 7 9 5 0 0 0 1 2 2 3 4 5 5 1 7 9 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	This access cool beings to " + FRIDE_LMAR, "en access mard", 11: [inge, coose cool beings to " + FRIDE_LMAR, "en access mard", 1 This access and beings to " + FRIDE_LMAR, "en access mard", 1 Complexer_may_read_on = ison player_may_contry + [0, 37, 2, 40] 1 Complexer_may_read_on = ison player_may_contry + [0, 37, 2, 40] 1 Freedom ## 1 Scenery describes dejects that cannot move accesses tooms, 1 cose number: [(cbject number, y position, x position)] 2 correct = f(cbject number, y position, x position)] 2 correct = f(cbject, 142.1, 141, 143, 141, 141, 141, 141, 141, 14
(199 (195) (	This access cool beings to " + FRIDE_LMARK, "an access mand", 1: [inger, coose, cool (access) = * FRIDE_LMARK, "an access mand", "This access must belongs to * FRIERC_INNE, "an access mand", 1 deployer may show (not * line, crossers ped, suil, tomir floor, teems player may show (not * sizes player may castry * [0, 39, 2, 40] 1: Some makers 1:
111 00 00 00 00 00 00 00 00 00 00 00 00	This arrest cost beings to " + FRIDE_LMAR, "an arrest mat"), 11: [inge, cost, cost, fee, fee, *This arrest cost belongs to " + FRIDE_LMAR, "an arrest mat"), 1 ices Daiver say_corry = list(inge(0, 02)) * Moders below as for floor, pressure pai, soil, their floor. ices Divyt say_stad_um = ises playe_may_carry + [0, 30, 2, 40] ************************************
(194 195 196 196 196 196 196 196 196 196	<pre>This access could beings to " + FRIDE_LMARK, "an access could beings to " + FRIDE_LMARK, "an access could be access act be longe to " + FRIERC_LMAR, "an access could";     "This access act belongs to " + FRIERC_LMARK, "an access could";     "Shorter being any for floor, prevents poil, soil, testir floor.     test_ploor_may_start_m * ist (indep(68, 80))     for a start_ploor_may_start_m * access could be access to access the access access to access the access access to access the access access to access to access the access access access to access the access access access to access the access to access to access the access to access the access to access to access to access the access to ac</pre>
(194 195 196 196 196 196 196 196 196 196	<pre>This access could beings to " + FRIDE_LMADE, "an access mand"; 1: [inger, course, could beings to " + FRIDE_LMADE, "an access start"] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</pre>
(19) (19) (10)	This access could beings to " + FRIDE_LMARK, "an access mand", 11: [inge, course and beings to " + FRIDE_LMARK, "an access mand", 1 This access and belongs to " + FRIENC_MARK, "an access mand", 1 Complexer_may_read_on = isong_playse_may_catry = [0, 37, 2, 40] 1 Complexer_may_read_on = isong_playse_may_catry = [0, 37, 2, 40] 1 Freedom file 1 Scenery (secretion dejects that cannot noive between rooms, 1 complexer_may_read_on = isong_playse_may_catry = [0, 37, 2, 40] 1 Freedom file 1 Scenery (secretion dejects that cannot noive between rooms, 1 come numbers [[(cbjcot number, y position, x position],] 2 Scenery (a.r.); 2 This [[(cbjcot number, y position, x position],] 2 Scenery (a.r.); 2 This [[(cbjcot number, y fosition], x position],] 2 Scenery (a.r.); 2 This [[(cbjcot number, y fosition], x position],] 2 Scenery (a.r.); 2 This [[(cbjcot number, y fosition], x position],] 2 Scenery (a.r.); 2 This [[(cbjcot number, y fosition], x position],] 2 Scenery (a.r.); 2 This [[(cbjcot number, y fosition], x position],] 3 Scenery (a.r.); 3 Scenery
104 104 104 104 104 104 104 104	This access could being to " + FRIDE_LINES, "an access could being to " + FRIDE_LINES, "an access could being to " + FRIERC_INES, "an access could be access access could be access acce
134 135 144 155 155 155 155 155 155 15	<pre>This arrest cost beings to " + FRIDE_LMARK, "en arrest mat";, if; inge, costs_cost, Ben, "This arrest costs_cost, Ben, 1 ices_Dayte_sey_costy = list(map(00, 00)) i Rabert beings to : for pressure pat, soil, imain floor. ices_ployte_sey_tend_on = items_ployte_ms_costry + [0, 30, 2, 40] if; for the start of floor that commat move between rooms, i cost ployte_sey if costs; for the start of floor that commat move between rooms, i cost ployte_sey if costs; for the start of floor that commat move between rooms, i cost ployte_sey if costs; for the start of floor that commat move between rooms, i cost number: [[costs that commat move between rooms, i cost, i], cost, i], [cost, i], [cost, i], [cost, i], [cost, i], i] [[cost, i], [cost, i], [cost, i], [cost, i], [cost, i], cost, i], [cost, i], [cost, i], [cost, i], [cost, i], i] [[cost, i], [cost, i], [cost, i], [cost, i], [cost, i], i] [[cost, i], [cost, i], [cost,</pre>
19 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	This access could beings to " + FRIDE_LMARK, "an access could beings to " + FRIDE_LMARK, "an access could be access act be longs to " + FRIERC_LMARK, "an access could". 1 "This access act be longs to " + FRIERC_LMARK, "an access could". 1 "Disk access act be longs to " + FRIERC_LMARK, "an access could". 1 "Disk access act be longs to " + FRIERC_LMARK, "and access could". 1 "Disk access act be longs to " + FRIERC_LMARK, "an access could". 1 "Disk access act be longs to " + FRIERC_LMARK, "an access could". 1 "Disk access act be long to " + FRIERC_LMARK, "and access could". 1 "Disk access act be long to " + FRIERC_LMARK, "and " + FRIERC_LMARK, "access could be long to " + FRIERC_LMARK, "access could be long to " + FRIERC_LMARK, "access could be long to " + FRIERC_LMARK," access could be long to " + FRIERC_LMARK, "access could be long to " + FRIERC_LMARK," access could be long to " + FRIERC_LMARK, "access could be long to " + FRIERC_LMARK," access could be long to " + FRIERC_LMARK, " + FRIERC_LMARK, " + FRIERC_LMARK," + FRIERC_LMARK, " + FRIERC_LMARK," + FRIERC_LMARK, " + FRIERC_LMARK," + FRIERC_LMARK, + FRIERC_LM
19 19 00 00 00 00 00 00 00 00 00 00 00 00 00	<pre>This access cool beings to " + FRIDE_LINES, "an access cool beings to " + FRIDE_LINES, "an access cool beings to " + FRIERS_INES, "an access cool";     """"""""""""""""""""""""""""""""</pre>
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(34) (	<pre>This access could beings to " + FRIDE_LINES, "an access could beings to " + FRIDE_LINES, "an access could beings to " + FRIDE_LINES, "an access could".</pre>
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(19)           (19)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (10)           (11)           (11)	<pre>This access could beings to " + FRIDE_LBAR. "An access card beings to " + FRIDE_LBAR. "An access card beings to " + FRIERS_BAR. "An access card"]     "This access each beings to " + FRIERS_BAR. "An access card"]     "Isober being any start property proved access access card"]     "Sober being any start property access access access card"]     "Sober being any start provement point access access card"]     "Sober being any start provement point access acce</pre>
191 00 00000000000000000000000000000000	<pre>This access cool beings to " + FRIDE_LBAR, "an access cool beings to " + FRIDE_LBAR, "access cool beings to " + FRIERS_BAR, "access cool",</pre>
194           194      194      194	This access could beings to " + FRIDE_LBAGE. "An access mand". I: [ingen_course_could beings to " + FRIDE_LBAGE. "An access mand". "This access must belongs to " + FRIENC_BMAE. "an access mand". 1 loss player_sey_courty = listinge(69, 02) 3 losses being may access player_may_matrix = [0, 39, 2, 40] FRIENDERS FRIENDERS FRIENDERS FRIENDERS FRIENDERS 1 Scenery Gesclies dejects that cannot nove between rooms. 1 com mabers [[dejects thate, y position, a position]] 5 construction of the second scener in the second scener. 1 com mabers [[dejects thate, y position, a position]] 5 construction of the second scener. [[dejects thate scener.]] 5 construction of the second scener. [[dejects thate scener.]] 5 construction of the second scener.] 5 construction of the second scener. [[dejects thate scener.]] 5 construction of the second scener.] 5 construction of the scene
191 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<pre>This access could beings to " + FRIDE_LINES, "an access could beings to " + FRIDE_LINES, "an access could beings to " + FRIDE_LINE, "an access could beings to " + FRIDE_LINE, "an access could".</pre>
194           194           195	<pre>This access cool beings to " + FRIDE_LBAD. "An access cool being to " + FRIERS_BAD. "An access cool being to " + FRIERS_BAD. "An access cool access to the second to</pre>
134         14           134         14           135         14           14         14      <	This access could beings to " + FRIDE_LBAR, "on access could be 1: [ings.comes.comed beings to " + FRIDE_LBAR, "on access could - 1: This access and beings to " + FRIECLAR, "on access could - 1: Come player sev_could be income (50, 02)) 1: Come player sev_could be income (50, 02) 1: Come player sev_could be income (50, 02)) 1: Come player sev_could be income (50, 02)) 2: Come player severe se
194           194           194           195	<pre>This access could beings to " + FRIDE_LINES, "an access could beings to " + FRIDE_LINES, "an access could beings to * FRIERC_INES, "access could be access access could be access a</pre>
19         19         10<	This access could beings to " + FRIDE_LBAGE. "An access mand". I: [inge.couss_could beings to " + FRIDE_LBAGE. "An access mand". I = This access and beings to " + FRIENC_BMAE. "an access mand". I = Access and the set of flow presents put, set. the flow. I = Access a for flow present put, set. the flow. I = Access a for flow present put, set. the flow. I = Access a for flow present put, set. the flow. I = Access a for flow present put, set. the flow. I = Access a for flow present put, set. the flow present put, set. I = Access a for flow present put, set. the flow present put, set. I = Access for flow present put, set. the flow present put, set. I = Access flow present put, set. the flow present put, set. I = Access flow present put, set. the flow present put, set. I = Access flow present put, set. the flow present put, set. I = Access flow present put, set. the flow present put, set. I = Access flow present put, set. the flow present put, set. I = Access flow present present put, set. the flow present put flow present put, set. I = Access flow present present put flow present p
19         19         10<	<pre>This access could beings to " + FRIDE_LMARK, "an access could beings to " + FRIDE_LMARK, "an access could beings to " + FRIERC_LMARK, "an access could".     "This access and beings to " + FRIERC_LMARK, "an access could".     "This access and beings to " + FRIERC_LMARK, "an access could".     "Solute being and access access access access".     "Solute being access ac</pre>
145 047 259 0 0 0 59 0 0 59 0 0 0 0 0 0 0 0 0 0 0	<pre>This access could beings to " + FRIDE_LMARK, "an access could beings to " + FRIDE_LMARK, "an access could beings to * FRIERE_LMARK, "an access could "     "This access act beings to * FRIERE_LMARK, "an access could"     "This access act beings to * FRIERE_LMARK, "an access could"     "Access playing may stand on * them player may could to the floor.     team player may stand on * them player may could to the floor.     team player may stand on * them player may could to the floor.     team player may stand on * them player may could to the floor.     team player may stand on * them player may could to the floor.     team player may stand on * them player may could to the floor.     team player may stand on * them player may could to the floor.     team player may stand to the floor.     tea</pre>
145 047 0590 323 340 379 30 300 00 00 00 00 00 312 324 567 18 30 323 34 560 79 30 30 00 00 00 00 312 324 567 18 30 323 34 566 7	This access could beings to " + FRIDE_LMARK, "an access could beings to " + FRIDE_LMARK, "an access could belongs to " + FRIERC_MARK, "an access could". * This access and belongs to " + FRIERC_MARK, "an access could". * Jobset being accessed belongs to " + FRIERC_MARK, "an access could". * Jobset belongs accessed belongs to " + FRIERC_MARK, "an access could". * Jobset belongs accessed belongs to " + FRIERC_MARK, "an access could". * Jobset belongs accessed belongs to " + FRIERC_MARK, "an access could". * Jobset belong accessed belongs to the accessed belong to t
145 001 0000 0000 0000 00000000000000000	<pre>This access could beings to " + FRIDE_LADE. "An access could beings to " + FRIDE_LADE. "An access could beings to " + FRIERC_INE. "access could beings to " + FRIERC_INE. "access could be access access could be access access could be access acces access access access access access acc</pre>
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194           194           194           194           194           195	This access could beings to " + FRIDE_LMARK, "an access could beings to " + FRIDE_LMARK, "an access could belongs to " + FRIERC_LMARK, "an access could". "This access and belongs to " + FRIERC_LMARK, "an access could". "This access and belongs to " + FRIERC_LMARK, "an access could". "Looker below, and for floor, presents pol, soil, texis floor. texes_player_av_rescal_m = texes_player_av_restr = [t, 39, 1, 43] "Access access acce
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                                                                                                                        44 HARE HAF 14
ord generate hap())

* This function makes the map for the current room,

* using room data, ansatery data and prop data.

global room para, room yidth, room height, room name, hasned map

global room para, room yidth, room height, room name, hasned map

room data = SWE[Mar(current_room)

room data = SWE[Mar(current_room)

room height = room data(1)

room_width = room data(2)
                                                                                                                                                                  sla__uppe 1 feature
? Creater top line of room sdp.
room space[[stdds.edes] * room vidth]
* Abb midd these is non many plant, flowr um fill vidth, wall.
in room spacespread[loads.edgs]
* [flow_type]*(room vidth - 3) + [side_edge])
# Add borton lise of room sdp.
* abb room subset [[strim_sdp] * room vidth]
                                                                                                                                                                      1 Add docrweys.
middle_row = int(room_beight / 2)
middle_column = int(room_width / 2)
                                                                                                                                                                  if rosm_deta[4]: # if exit at right of this room
room_map[middls_row][room_width - 1] = floor_type
room_map[middls_row][room_width - 1] = floor_type
room_map[middls_row-1][room_width - 1] = floor_type
                                                                                                                                                                  ioon_Nepiguadac_Tool_IIIoon_Waidat - 1] = LooT_Type
f usreat_toon NADY WIGTL '1 = 1 f f constants and smithed of map
room_toolatt = SAME_MARITERIES = SAME state in this room
if f cont tool left has a right state, add left exit in this room
if noom_toolati(4)
room_angleadds_row + 10(0) = floor_type
room_angleadds_row + 10(0) = floor_type
                                                                                                                                                                  if room_data[3]: # if emit at top of this room
room_naps[0][middle_column] = floor_type
room_naps[0][middle_column + 1] = floor_type
room_naps[0][middle_column - 1] = floor_type
                                                                                                                                                                  x=x=i_veptu()recomex_mestum - 1) = flowr_type
flowree_ion < MA 515T = ADA NITHE i i for some is not on bottom yew
form belowr = OAH (DAN FOR A I TO AN I 
                                                                                                                                                              if com_map.com/interact
furner() com [] exceed/(correct_com):
    scenery.yrear=this.contery(0]
    scenery.yr = this_scenery(1)
    scenery.yr = this_scenery(1)
    room_map(scenery/v)[scenery.w] = scenery_number
                                                                                                                                                                                                                    image_here = objects[scenery_number][0]
image_width = image_here.get_width()
image_width_im_tiles = int(image_width / TILE_SI28)
                                                                                                                                                                                                                                                 for tile_number in range[1, image_width in_tiles):
    rosm_map[scenery_y][scenery_s + tile_number] = 155
```

357	center_y = int(HEEIGHT / 1) # Center of game window
950	center x = int(WIDTH / 2)
42.9	room_pimel_width = room_width * TILE_SITE # Size of room in pimels
440	room_pimel_height = room_height * TILE_SIZE
461	top_left_m = center_m - 0.5 * room_pimel_width
46.2	top_iert_y = (center_y - 0.8 * room_pixer_height) + 110
000	For some number, open info in store items it.
465	prop room = prop infolo]
966	prop v = prop info(1)
367	prop_s = prop_info(2)
0.611	if  prop_room ++ current_room and
469	room_map[prop_y][prop_x] in [0, 39, 3]);
470	room_map[prop_y][prop_w] = prop_number
471	image_here = objects(prop_number)[0]
972	image_width = image_here.get_width()
454	for tile number in range (1, image width in tiles);
+70	room mapiprop vi (prop m + tile number) = 255
+76	
677	
978	*********
479	## GRAE LOOF ##
300	
457	That shart room() -
952	show test ("You are here; " + room name, 0)
984	And Charly and State and Charles of Charles
386	cef game_loop() (
616	glabal player_s, player_y, current_room
:487	ginhal from_player_x, from_player_y
998	glubal player_image, player_image_shadow
100	when selected item, item carrying, energy
490	minhal player frame, player direction
997	the second
993	Lf game over:
-10-1	reburn
493	
100	if playsr_frame > 0:
497	player frame += 1
200	oime.dicep(0.05)
200	clause frame = 0
501	player offset x = 0
602	player offset y = 0
60.8	
206	#save player's current position
202	old_player_x = player_x
505	old_player_y = player_y
0.07	
201	# move if key is present
2110	in prayer rrans or
111	from player a mayer a
012	from player y = player y
313	player x += 1
314	player direction = "right"
312	player_frame = 1
316	-115 Reymoard.left: felif stops player making diagonal anvenents
21.0	trom_prayer_x = prover_x
519	niaver x -= 1
520	player direction = "left"
821	player_frame = 1
522	elif keyboard.up)
923	from_player_x = player_x
224	from_playar_y = playar_y
500	player direction = funt
667	player frame = 1
9.2.0	elif keyboard.downs
121	from_player_x = player_x
\$30	from_player_y = player_y
331	player_y += 1
1002	player frame = 1
374	Bandow Transfer a
335	# check for emiting the room
536	if player x == room width: # through door on RIGHT
8.37	folook.umechedule(hazard move)
8.38	current room += 1
133	generate mdp()
101	player y = int(room height / 2) & anter at door
592	player frame = 0
588	start_room()
장국문	recurs
243	and the second se
240	if player x == -1: # through door on LEFT
1127	AUXYERT DOOR -= 1
040	generate map()
250	player x = room width - 1 + enter at right
251	player_y = int(room_height / 1) # enter at door
252	playst frame = 0
68.0	STAIL_LOOM()
664	140050
222	If player is an even hatches & through door at NUTCH
557	fclock, unschedule (hazard move)
558	current room += HAP WIDTH
665	generate_map()
660	player_y = 0 \$ enter at top
261	player_x = int(room_width / 2) # enter at door
202	prever risks = 0
	PATE TO AND A DATA OF A DA
565	



# else: drsw\_sbadow(shadow\_image, y, m) if (player\_y == room\_beight - 2 mod room\_wap(room\_beight - 1)(player\_y) == 1 mod well\_transparency\_frame <= 0) wall\_transparency\_frame <= 1 # Fade wall out.</pre> if game\_vet. text textlines [15, 50] textlines [16, 50] textl CONTRACTOR Proge six objects that may nove between nouse, agrees of thrappest. # All proper more to set up here. Proper nor yet in the game go into ions 0. a conject number 1 [soon, y, w] proge = 1 201 [31, 0, 31, 21: [24, 0, 2], 232 [44, 0, 2], 231 [35, 0, 3], 241 [34, 0, 3], 241 [27, 12, 5], # Two sides of same door 451 [34, 0, 3], 451 [47, 12, 5], # Two sides of same door 451 [0, 5, 6], 33. [45], 13, 5], 51 [0, 0, 0], 551 [5, 0, 0], 451 [34, 0, 0], 451 [51, 13], 551 [0, 0, 0], 551 [5, 0, 0], 451 [0, 0, 0], 451 [35, 14], 14], 52 [44, 0, 0], 551 [5, 0, 0], 451 [0, 0, 0], 451 [35, 3], 451 [35, 3], 51 [41, 0], 451 [0, 0, 0], 451 [35, 3], 521 [41, 13], 451 [0, 0, 0], 451 [35, 3], 701 [47, 13], 711 [0, LAMER Y, LAMERA X], 721 [0, 0, 0], 732 [27, 4, 6], 712 [35, 9, 11], 732 [24, 2, 2], 500 [84, 7, 3], s11 [29, 4, 2], 3 in my\_pockets = [66] selected\_item = 0 f the first item item\_carrying = in\_my\_pockets[selected\_item] AS PROF INTERACTIONS def find\_shypet\_ster: x(): checker\_x = player\_x while room\_sam[player\_y][checker\_x] == 355; checker\_x = 1 return checker\_x mf get\_item\_under\_player(); tem\_w = find\_object\_start\_s() tem\_player\_ite\_on = room\_map(player\_y)[item\_w] return item\_player\_is\_un processing and a set of the show\_text("You dan't carry that!", 0) and\_least(rion\_cont\_cont\_tant, or def\_upic\_tick(rion\_cont\_cont\_tant, or pload, selected\_ises, ises\_contying ingu\_powers appendix ingu\_powers appendix i Nume can brocker andrew start at 0. selected\_ises : isein\_rg\_powers) - i display\_isescory() providien() - 0 d Carried Cojects (0 Lints icom 0 (off the map). display\_inventory(): box = Rect((0, 45), (880, 105)) screen.draw.filled\_rect(box, BLACK) if len(in\_my\_pockets) == 0: start\_display = (selected\_iten // 16) \* 16 list\_to\_show = in\_my\_poorecs[start\_display + 16] selected\_market = selected\_item & 16 item\_counter is range(implist to show)): trem\_number = list to show(liest\_counter) lampe = objects[item\_number][0] srees.blit(immsey, (25 + 146 ' item\_counter], 90)) box lefs = (selected parter \* 44) = 3 box = Reor(42 + box[lefs, 65], (60, 40)) Sorem.claw.proc(box, RHIE) Item highlighted = to my porcheta[selected [tem] description = origents[tem\_highlighted][1] sorem.draw.text(description, (20, 130), color="white") porcentiany.text(decorription, (20, 100), color="Adits") durp (binst(d), y, cid.g); similations\_may, pross ff soom mp(ford(d), y)(cid.g) is (0, 7, 30); # pieces you can drop thinge propolited\_carrying(10) = old.y propolited\_carrying(12) = old.y prop

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