Лабораториска вежба Star Pusher – ПНВИ

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1. Change the controls for moving the camera and the player.

Со цел промена на контолата на камерата и на играчот ги сменив местата за движење на карактерот кои што сега се со копчињата WASD (линии 158-166), стрелките се движење на камерата (линии 170-177 и 199-206). На крај извршив промена во текстот на самиот почеток на играта за играчот да ги знае движењата (линија 393 – 396).

```
elif event.type == KEYDOWN:
    # Handle key presses
    #requirement 1:
    keyPressed = True
    if event.key == K_a:
        playerMoveTo = LEFT
    elif event.key == K_d:
        playerMoveTo = RIGHT
    elif event.key == K w:
        playerMoveTo = UP
    elif event.key == K_s:
        playerMoveTo = DOWN
    # Set the camera move mode.
    #requirement 1:
    elif event.key == K_LEFT:
        cameraLeft = True
    elif event.key == K RIGHT:
        cameraRight = True
    elif event.key == K_UP:
        cameraUp = True
    elif event.key == K_DOWN:
        cameraDown = True
    elif event.key == K_n:
        return 'next'
    elif event.key == K_b:
        return 'back'
    elif event.key == K_ESCAPE:
        terminate() # Esc kev quits
```

```
elif event.type == KEYUP:

# Unset the camera move mode.

#requirement 1:

if event.key == K_LEFT:

cameraLeft = False

elif event.key == K_RIGHT:

cameraRight = False

elif event.key == K_UP:

cameraUp = False

elif event.key == K_DOWN:

cameraDown = False

if playerMoveTo != None and not levelIsComplete:
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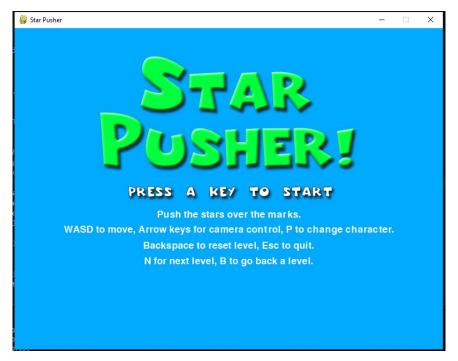
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2. Randomly select the next level (without repetition). The next level is reached when the player chooses to go to the next level while playing the current level or when he successfully completes a given level. The first level should also be chosen randomly. Previous level should be the level the player played before the current level.

Со цел генерирање на ново ниво, прво креираме промелнива previousLevelIndex која што ќе ја зачува бројката на претходното ниво за да може полесно да се изврши функционалноста back. За да одбереме random ниво, ја користиме функцијата random.randint() која што генерира рандом -

број од 0 до len(levels)-1 (линии 107-118). Во самиот zip file има видео наречено star pusher video каде што е илустрирана оваа промена .

```
#requirement 2:

if result in ('solved', 'next'):

# Go to the next level.

previousLevelIndex = currentLevelIndex

currentLevelIndex = random.randint(0, len(levels) - 1)

if currentLevelIndex >= len(levels) or currentLevelIndex == previousLevelIndex:

# If there are no more levels, go back to the first one.

currentLevelIndex = random.randint(0, len(levels) - 1)

elif result == 'back':

# Go to the previous level.

currentLevelIndex = previousLevelIndex

elif result == 'reset':

pass # Do nothing. Loop re-calls runLevel() to reset the level
```

3. Make your own change of the game, explain it and give the solution.

Додадени се два нови видови на ѕвезди и секое ниво случајно се одбира една од тие. За ова извршуваме само една промена на линија 571.



