

**Challenge:** Add blocks, stairs, and portals.

For this challenge, practice your world-building skills by adding all the elements needed to solve the puzzle. There are many different solutions, so decide whether you prefer to use a portal to jump around, or add blocks to bridge gaps.

Remember

You can create an instance and place it with the same line of code:

```
world.place(Block(), atColumn: 2, row: 2)
```

First, you'll need to [initialize](#) a character to solve the puzzle. See if you can think it through by using [pseudocode](#) that navigates through the puzzle world. Then use your code to change the structure of the puzzle world.

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```
let character = Character()
```

```
world.place(Block(), atColumn: 4, row: 6)
world.place(Block(), atColumn: 4, row: 6)
world.place(Block(), atColumn: 4, row: 3)
world.place(Block(), atColumn: 2, row: 4)
world.place(Block(), atColumn: 2, row: 5)
world.place(Stair(), facing: south, atColumn: 2, row: 5)
world.place(Stair(), facing: west, atColumn: 4, row: 3)
world.place(character, facing: west, atColumn: 3, row: 7)
```

```
func runCollection() {
    character.moveForward()
    character.jump()
    character.toggleSwitch()
    character.turnLeft()
    character.jump()
    character.collectGem()
    character.turnLeft()
    character.jump()
    character.toggleSwitch()
}
```

```
runCollection()  
character.turnRight()  
character.move(distance: 3)  
character.turnRight()  
character.moveForward()  
character.turnLeft()  
runCollection()  
character.jump()  
character.turnRight()  
character.move(distance: 2)  
runCollection()
```