Python Minecraft Steps Exercise

The code below shows a program to create a flight of steps. Run IDLE, Select "File->New File", enter this program and save it as "MySteps.py", then run it by selecting "Run->Run Module" and make sure that it works:

```python
#!/usr/bin/env python
##########################################################
#
# Build a flight of steps in Minecraft.
#
##########################################################
from mcpi.minecraft import Minecraft
from mcpi import block

# How many stairs to be made.
size = 10

# Connect to Minecraft
mc = Minecraft.create()

# Find out where the Player is (we want to build near here)
x, y, z = mc.player.getTilePos()
print "Making Steps at: " + str(x + 2) + ", " + str(z)

# Build a series of staggered bricks.
for step in range(size):
    mc.setBlock(x+step+2, y+step, z, block.STAIRS_WOOD.id, 0)
    mc.setBlock(x+step+3, y+step, z, block.WOOD.id)
```

Enhance the program so that it creates a platform at the top of the steps.

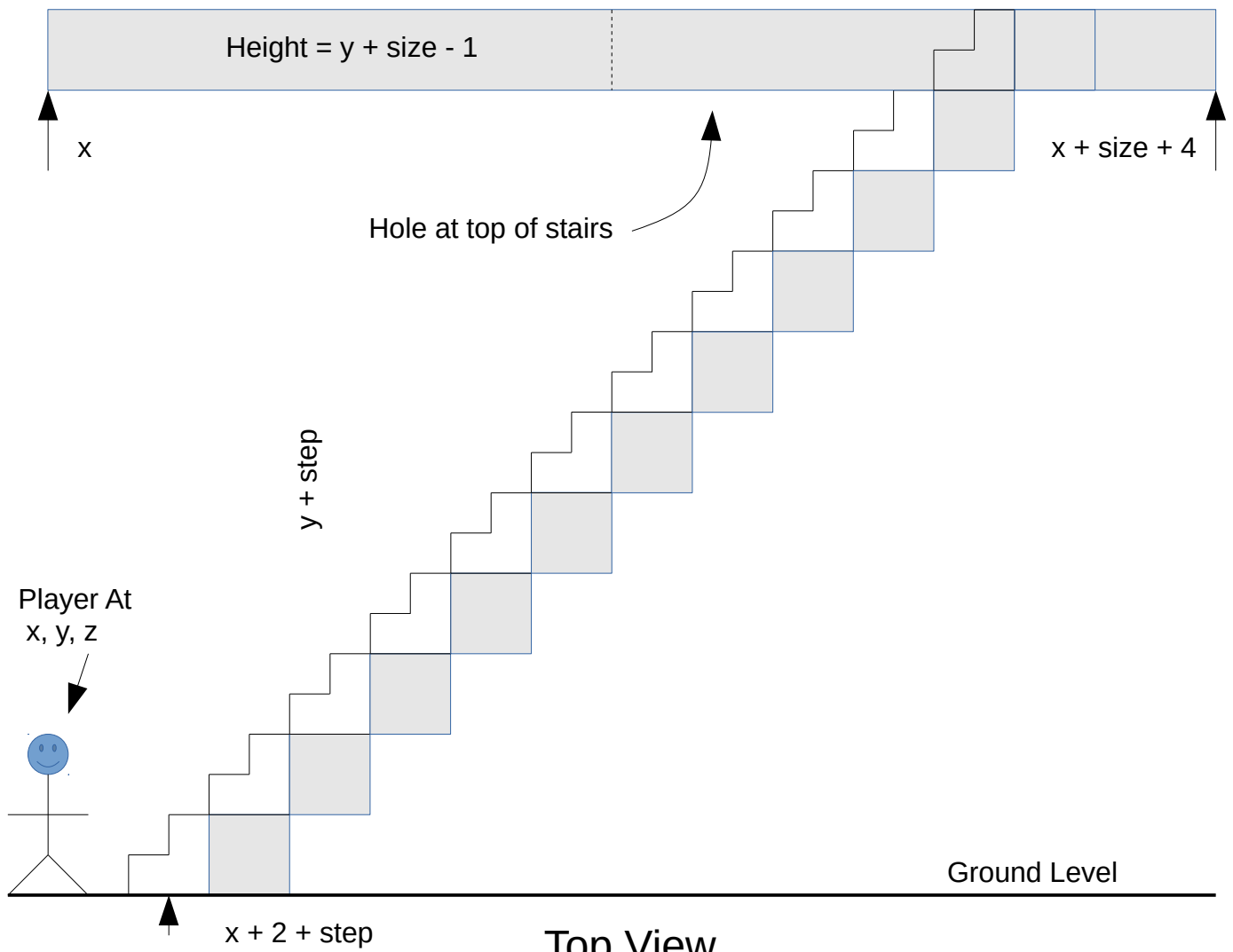Make sure that the platform is level with the top step.

Remember that this command will create a whole area of blocks at once (you will need to replace x1, y1, … with your own calculated values):

```python
mc.setBlocks(x1, y1, z1, x2, y2, z2, block)
```

Use the diagram on back of this sheet to help you calculate the values.

Happy Coding!

Side View

Height = y + size - 1

x

x + size + 4

Hole at top of stairs

y + step

Player At
x, y, z

Ground Level

x + 2 + step

Top View

z - 2

z

X + 2 + size - 4

x + 2 + size

Hole at top of stairs

z + 12

x

x + size + 4