**Walk-through: RectangularRoom**

[dasdevashishdas](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/823323) 7 days ago

class RectangularRoom(object):

def \_\_init\_\_(self, width, height):

# store width & height

# Initialize a whole object usable Dict: {(0,0):False,...,(max,max):Flase}

def cleanTileAtPosition(self, pos):

# pos is a Position Object

# thus, have pos.?x and pos.?y

# can be checked in Dict as (pos.?x,pos.?x) >>> CAUTION

def isTileCleaned(self, m, n):

# Check dict for value

def getNumTiles(self):

# something \* something

def getNumCleanedTiles(self):

# count for True Values in Dict

def getRandomPosition(self):

# Make sure which kind of random method to use

# return Position(random number, random number)

def isPositionInRoom(self, pos):

# is Position(?x,?y) in {room}

Warning :

BEWARE OF TYPE ERROR (The invisible one's are the worse like 0.0 and 0)

REMEMBER:

> print type( ) ... is your best friend

> Position is unchangeable, try your best friend on the input output of this class

> use math.floor() somewhere because 0.0 is not 0

... Do tell me if this helped or you have any query? ...

Bottom of Form

1. 1 [pylyp](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/1277344)

7 days ago

Position(?x,?y) - is object, but you use tuples as keys.

* + No, it just a way to show. Position Object have two method in place of ?x and ?y. (i.e getX, getY)

–posted 7 days ago by [dasdevashishdas](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/823323)

* + but you are trying search
  + is Position(?x,?y) in {room}

–posted 7 days ago by [pylyp](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/1277344)

* + not by this post I just giving a hint what too do not the code.

(Position.getX,Position.getY) in dict where you saved your values.

–posted 7 days ago by [dasdevashishdas](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/823323)

Top of Form



Bottom of Form

1. [2](javascript:void(0)) [dim\_moon](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/1034654)

6 days ago

I have not used dictionary, just a list and removed cleaned tiles from it. I thought it would be more memory saving, though the question of memory is not really important here.

* + My original idea was using the list, but look at his idea, its easy to code and understand isn't it. Why do you think using list is more memory saving?

–posted 2 days ago by [gunsmithy](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/599882)

* + How can you initialize such a dictionary??? How can you add all possible keys as tuples with value "NotCleaned"???

–posted about 23 hours ago by [Kaulfield](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/1036895)

* + Initialize it as:   
    My.NewDict = {}   
    for each number of unit in width as W:   
    for each number of unit in Height as H:   
    My.NewDict[(W,H)] = False

–posted about 16 hours ago by [dasdevashishdas](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/823323)

Top of Form



Bottom of Form

1. [0](javascript:void(0)) [SherrySmile](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/1000990)

4 days ago

Thank you so much for posting this. It helped me a lot, especially the idea of creating a dictionary to store tile location and cleanness.

Top of Form



Bottom of Form

Bottom of Form

1. [0](javascript:void(0)) [yoshimix](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/1000606)

3 days ago

I have a dictionary object defined in **init**. How can I call this dictionary from the cleanTileAtPosition() function?

* + I hope you created the dictionary as self.my\_dict\_name. So, you can call it in any method of the same class by self.my\_dict\_name.

eg.

class something(Object):

def \_\_init\_\_(self,...):

....

self.SomeDict = {Key:Value}

def new\_method(self):

....

self.SomeDict[Key]

–posted a day ago by [dasdevashishdas](https://www.edx.org/courses/MITx/6.00x/2013_Spring/discussion/forum/users/823323)

Bottom of Form

Top of Form

**Post a response:**