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MITx: 6.00.1x Introduction to Computer Science and Programming Using Python

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Calendar (/courses/MITx/6.00.1_3x/2T2014/89309559b0414f6d8cbef9e48ca19f4b/)   Wiki (/courses/MITx/6.00.1_3x/2T2014/course_wiki)

iscussion (/courses/MITx/6.00.1_3x/2T2014/discussion/forum)   Progress (/courses/MITx/6.00.1_3x/2T2014/progress)

Help

PROBLEM 7 (10 points possible)

McDonald's sells Chicken McNuggets in packages of 6, 9 or 20 McNuggets. Thus, it is possible, for example, to buy exactly 15 McNuggets (with one package of 6 and a second package of 9), but it is not possible to buy exactly 16 McNuggets, since no non-negative integer combination of 6's, 9's and 20's add up to 16. To determine if it is possible to buy exactly n McNuggets, one has to find non-negative integer (can be 0) values of a, b, and c such that

$$6a + 9b + 20c = n$$

Write a function, called `McNuggets` that takes one argument, `n`, and returns True if it is possible to buy a combination of 6, 9 and 20 pack units such that the total number of McNuggets equals `n`, and otherwise returns False. Hint: use a guess and check approach.

Note: You will only get **ten** checks. Use these judiciously.

```
1 def McNuggets(n):
2     """
3     n is an int
4
5     Returns True if some integer combination of 6, 9 and 20 equals n
6     Otherwise returns False.
7     """
8     # Your Code Here
9
```

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