



Week 5 - Take Home

1) True or False?

Look at the following conditional statements. Circle whether answer is True or False based on the given variable values.

answer = x and y

1A) x = True, y = False

answer = True / False

1B) x = False, y = True

answer = True / False

1C) x = True, y = True

answer = True / False

answer = (x or y) and z

1D) x = True, y = False, z = True

answer = True / False

1E) x = False, y = False, z = True

answer = True / False

1F) x = True, y = True, z = False

answer = True / False

answer = not (x or (y and z))

1G) x = False, y = True, z = False

answer = True / False

1H) x = True, y = False, z = False

answer = True / False

1I) x = False, y = True, z = True

answer = True / False

2) Finish the code

Given the function header, complete the code inside of the function to perform the correct functionality.

2A)

You are eating with your friends Alex and Jordan. Unfortunately, these friends have allergies and dietary restrictions!

Here are the following rules for each friend:

Alex	Jordan
<ul style="list-style-type: none">Does not eat meatIs allergic to nutsOnly eats food containing milk	<ul style="list-style-type: none">Only eats meat when veggies are presentFood has to contain either milk or nuts

Sample input: `food_checker("Alex", False, True, False, True)`

Sample output: "Alex will eat the food."

Sample input: `food_checker("Jordan", True, False, True, True)`

Sample output: "Jordan will not eat the food."

def food_checker(friendName, hasMeat, hasVeggies, hasNuts, hasMilk):

2B)

You are trying to build hamburgers. Each hamburger requires 2 buns, 1 patty (either meat or veggie), and 4 tomato slices. Given the number of buns, meat patties, veggie patties, and tomato slices, how many hamburgers can you make?

Sample input: `calculate_hamburgers(7, 10, 0, 15)`

Sample output: "You can make 3 hamburgers"

Sample input: `calculate_hamburgers(20, 5, 3, 30)`

Sample output: "You can make 8 hamburgers"

```
def calculate_hamburgers(numBuns, numMeatPatties, numVeggiePatties,  
                          numTomatoSlices):
```