

Name(s) and NetId(s):

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### Predicting Code Behavior (5 points)

Try to figure out the answers **without** writing the code and running the program. Try to figure out what the program does just by studying the code and remembering the material that we covered in class.

Consider the following program in Python:

```
1 available_toppings = ['mushrooms', 'olives', 'green peppers',  
2     'pepperoni', 'pinapple', 'extra cheese']  
3  
4 requested_toppings = ['mushrooms', 'sausage', 'Olives']  
5  
6 for topping in requested_toppings:  
7     if topping in available_toppings :  
8         print ('Adding', topping, '.')  
9     else:  
10        print ("Sorry, we don't have", topping, ".")  
11  
12 print ("\nFinished making your pizza.\nEnjoy!")
```

What will this program print ?

## The code mangler strikes again (5 points)

This time, the code mangler got to my program and 1) removed all the indentation and 2) sorted the lines in alphabetical order.

```
# determine if customer qualifies
else:
else:
# get customer's salary
# get the number of years employed
if salary > min_salary:
if years > min_years_employed:
min_salary = 30000.00
min_years_employed = 2
print ('\nYou must earn at least $', min_salary, ' to qualify.', sep='')
print ('\nYou must have been employed for at least', min_years_employed, 'to qualify.')
print ('\nYou qualify for the loan.')
salary = float(input("Enter your annual salary: "))
# This program determines if a customer qualifies for a loan
years = int(input("How many years have you been employed: "))
```

Rewrite the lines of code, so that they form a valid program. Make sure to use proper indentation. (Rewrite the actual code, do not just use line numbers.)