NAME: \_\_\_\_\_ CS21 Fall 2018, Written portion of Lab 5 Due in class Friday, October 12

Consider the following program:

```
def maxlen(str1, str2):
  print("in function...")
  #### scope Q3
  if len(str1) > len(str2):
     m = len(str1)
  else:
     m = len(str2)
  #### stack Q1
  return m
def main():
  a = "swarthmore"
  b = "college"
  print("in main...")
  result = maxlen(a, b)
  #### scope Q2
  print("Result: %s" % result)
```

main()

1. Draw the stack as it appears when the program reaches the line **#stack Q1**.

DRAW STACK/HEAP HERE

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- 2. For the line **#scope Q2**, what variables are currently in scope? That is, what variables can you refer to without getting a runtime error?
- 3. For the line **#scope Q3**, what variables are currently in scope?
- 4. What output is produced by the whole program?