

1 Butter Nutter

(a) Label the parts of the following function:

```
1  peanut = butter = "crunchy"
2  jelly = "strawberry"
3
4
5  def sandwich(butter, bread):
6      if (len(bread) > len(butter) and len(butter) != 0):
7          return sandwich(butter[1:], bread + butter[0])
8      return bread
9
10
11 sandwich(peanut + " ", jelly)
```

Solution:

```
1  peanut = butter = "crunchy" #global variables
2  jelly = "strawberry" #global variable
3  def sandwich(butter, bread): #function name
4      if (len(bread) > len(butter) and len(butter) != 0): #conditional
5          return sandwich(butter[1:], bread + butter[0]) #recursive call
6      return bread #return statement
7
8
9  sandwich(peanut + " ", jelly) #function call
```

(b) What does the above code snippet return?

Solution: strawberrycrunchy