CS 61A CSM The Structure and Interpretation of Computer Programs
Fall 2017 Kartik Kapur Environments

## 1 Butter Nutter

(a) Label the parts of the following function:

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

```
Solution:

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

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(b) What does the above function print?

sandwich(peanut + "" , jelly)

(c)