

## Example pytest test cases from lab03

```
import pytest

def test_perimRect_1():
    assert perimRect(4,5)==18

def test_perimRect_2():
    assert perimRect(7,3)==20

def test_perimRect_3():
    assert perimRect(2.1,4.3)==pytest.approx(12.8)
```

## Code for indexShortest\_a

No hints on this one.

```
1  def indexShortest_a(slist):
2      if type(slist)!=list:
3          raise ValueError("not a list")
4      if slist==[]:
5          raise ValueError("it's empty")
6
7      soFar = 0
8      for i in range(0,len(slist)):
9          if type(slist[i])!=str:
10             raise ValueError("found non-string")
11             if len(slist[i]) < len(slist[soFar]):
12                 soFar = i
13     return soFar
```

## Code for indexShortest\_b

Hint: Pay attention to the indentation of line 13

```
1  def indexShortest_b(slist):
2      if type(slist)!=list:
3          raise ValueError("not a list")
4      if slist==[]:
5          raise ValueError("it's empty")
6
7      soFar = 0
8      for i in range(0,len(slist)):
9          if type(slist[i])!=str:
10             raise ValueError("found non-string")
11             if len(slist[i]) < len(slist[soFar]):
12                 soFar = i
13     return soFar
```

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## Code for `indexShortest_c`

Hint: pay attention to line 11

```
1  def indexShortest_c(slist):
2      if type(slist)!=list:
3          raise ValueError("not a list")
4      if slist==[]:
5          raise ValueError("it's empty")
6
7      soFar = 0
8      for i in range(0,len(slist)):
9          if type(slist[i])!=str:
10             raise ValueError("found non-string")
11             if len(slist[i]) <= len(slist[soFar]):
12                 soFar = i
13     return soFar
```

## Code for `indexShortest_d`

Hint: again, pay attention to line 11

```
1  def indexShortest_d(slist):
2      if type(slist)!=list:
3          raise ValueError("not a list")
4      if slist==[]:
5          raise ValueError("it's empty")
6
7      soFar = 0
8      for i in range(0,len(slist)):
9          if type(slist[i])!=str:
10             raise ValueError("found non-string")
11             if slist[i] < slist[soFar]:
12                 soFar = i
13     return soFar
```

End of Handout