L3 PROBLEM 2A (2/2 points)

In this problem you'll be given a chance to practice writing some while loops.

1. Convert the following into code that uses a while loop.

print `2`
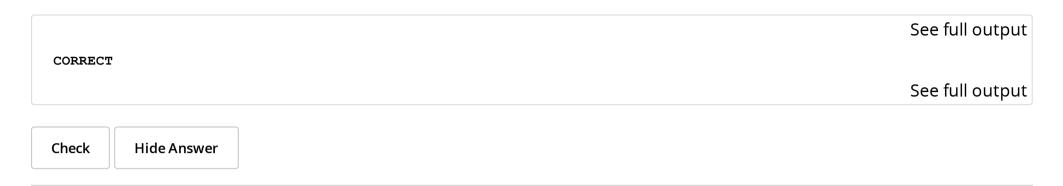print `4`
print `6`
print `8`
print `10`
print `Goodbye!`

```
1 num = 2
2 while num < 11:
3     print num
4     num += 2
5 print "Goodbye!"
6
```

Correct

```python
# There are many ways to solve this problem! Here is one:
num = 2
while num < 11:
    print num
    num += 2
print "Goodbye!"

# Here is another:
num = 2
while num <= 10:
    print num
    num += 2
print "Goodbye!"

# And another:
num = 0
while True:
    num += 2
    print num
    if num >= 10:
        print "Goodbye!"
        break

# And one more:
num = 1
while num <= 10:
    if num % 2 == 0:
        print num
    num += 1
print "Goodbye!"

# There are always many, many different ways to solve a programming
# problem. Here are just four examples and surely there are quite
# a few more.
```

Test results

Check   Hide Answer

L3 PROBLEM 2B (2/2 points)

2. Convert the following into code that uses a while loop.

print `Hello!`
print `10`
print `8`
print `6`
print `4`
print `2`

```
1 num = 11
2 print "Hello!"
3 while num > 1:
4     num -= 1
5     if num %2 == 0:
6         print num
```

Correct

```
# There are always many ways to solve a programming problem. Here is one:
print "Hello!"
num = 10
while num > 0:
    print num
    num -= 2

# Here is another:
num = 11
print "Hello!"
while num > 1:
    num -= 1
    if num %2 == 0:
        print num
```

Test results

See full output

CORRECT

See full output

[Check] [Hide Answer]

L3 PROBLEM 2C (3/3 points)

3. Write a while loop that sums the values 1 through `end`, inclusive. `end` is a variable that we define for you. So, for example, if we define `end` to be 6, your code should print out the result:

```
21
```

which is 1 + 2 + 3 + 4 + 5 + 6.

For problems such as these, do not include `raw_input` statements or define the variable `end`. Our automating testing will provide a value of `end` for you - so write your code in the following box assuming `end` is already defined.

Hint: Don't Use A Variable Called 'sum'

```
1  # Here is one of a few ways to solve this problem:
2  total = 0
3  current = 1
4  while current <= end:
5      total += current
6      current += 1
7
8  print total
```

Correct

```
# Here is one of a few ways to solve this problem:
total = 0
current = 1
while current <= end:
    total += current
    current += 1

print total
```

Test results

CORRECT

Check　**Hide Answer**

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