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## 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

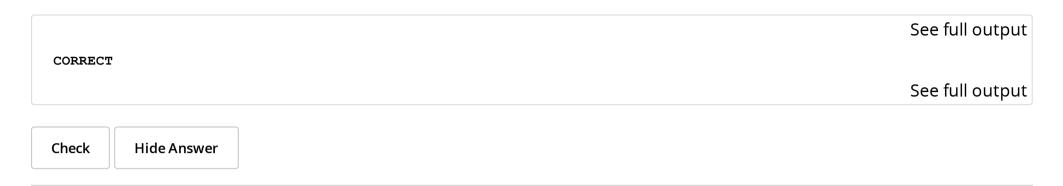
print Goodbye!

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

Correct

```
# 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 \leq 10:
    print num
    num += 2
print "Goodbye!"
# And another:
n_{11}m = 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



## 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
```

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:

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

For problems such as these, do not include <code>raw\_input</code> statements or define the variable <code>end</code>. Our automating testing will provide a value of <code>end</code> for you - so write your code in the following box assuming <code>end</code> 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</pre>
print total
```

## Test results

Check

**Hide Answer** 

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