

Test 1:

Welcome to BobCat Candy, home to the famous BobCat Bars!

Enter the price of each BobCat Bar:

**** user input : 2

Enter the number of wrappers needed to exchange for new bar:

**** user input : 2

How much money do you have?

**** user input : 16

Good! Let me run the numbers ...

First, you buy 8 bars.

Then you will get another 4 bars.

Then you will get another 2 bars.

Then you will get another 1 bars.

With \$16 you will receive a maximum of 15 BobCat Bars!

-- program is finished running --

Picture of output:

```
Welcome to BobCat Candy, home to the famous BobCat Bars!
Enter the price of each BobCat Bar:
**** user input : 2
Enter the number of wrappers needed to exchange for new bar:
**** user input : 2
How much money do you have?
**** user input : 16
Good! Let me run the numbers ...
First, you buy 8 bars.
```

```
First, you buy 8 bars.
Then you will get another 4 bars.
Then you will get another 2 bars.
Then you will get another 1 bars.
With $16 you will receive a maximum of 15 BobCat Bars!

-- program is finished running --
```

Test 2:

Welcome to BobCat Candy, home to the famous BobCat Bars!

Enter the price of each BobCat Bar:

**** user input : 3

Enter the number of wrappers needed to exchange for new bar:

**** user input : 5

How much money do you have?

**** user input : 30

Good! Let me run the numbers ...

First, you buy 10 bars.

Then you will get another 2 bars.

With \$30 you will receive a maximum of 12 BobCat Bars!

-- program is finished running --

Picture of Output:

```
Welcome to BobCat Candy, home to the famous BobCat Bars!
Enter the price of each BobCat Bar:
**** user input : 3
Enter the number of wrappers needed to exchange for new bar:
**** user input : 5
How much money do you have?
**** user input : 30
Good! Let me run the numbers ...
```

First, you buy 10 bars.

Then you will get another 2 bars.

With \$30 you will receive a maximum of 12 BobCat Bars!

-- program is finished running --

Test 3:

Welcome to BobCat Candy, home to the famous BobCat Bars!

Enter the price of each BobCat Bar:

**** user input : 5

Enter the number of wrappers needed to exchange for new bar:

**** user input : 2

How much money do you have?

**** user input : 4

Good! Let me run the numbers ...

With \$ 4 you will receive a maximum of 0 BobCat Bars!

-- program is finished running --

Picture of Output:

```
Welcome to BobCat Candy, home to the famous BobCat Bars!
```

```
Enter the price of each BobCat Bar:
```

```
**** user input : 5
```

```
Enter the number of wrappers needed to exchange for new bar:
```

```
**** user input : 2
```

```
How much money do you have?
```

```
**** user input : 4
```

```
Good! Let me run the numbers ...
```

```
With $ 4 you will receive a maximum of 0 BobCat Bars!
```

```
-- program is finished running --
```

Test 4:

```
Welcome to BobCat Candy, home to the famous BobCat Bars!
Enter the price of each BobCat Bar:
**** user input : 4
Enter the number of wrappers needed to exchange for new bar:
**** user input : 3
How much money do you have?
**** user input : 26
Good! Let me run the numbers ...
First, you buy 6 bars.
Then you will get another 2 bars.
With $26 you will receive a maximum of 8 BobCat Bars!

-- program is finished running --
```

Picture of Output:

```
Welcome to BobCat Candy, home to the famous BobCat Bars!
Enter the price of each BobCat Bar:
**** user input : 4
Enter the number of wrappers needed to exchange for new bar:
**** user input : 3
How much money do you have?
**** user input : 26
Good! Let me run the numbers ...

First, you buy 6 bars.
Then you will get another 2 bars.
With $26 you will receive a maximum of 8 BobCat Bars!

-- program is finished running --
```

Test 5:

Welcome to BobCat Candy, home to the famous BobCat Bars!

Enter the price of each BobCat Bar:

**** user input : 2

Enter the number of wrappers needed to exchange for new bar:

**** user input : 1

How much money do you have?

**** user input : 4

Good! Let me run the numbers ...

First, you buy 2 bars.

Come back anytime for endless exchanges of BobCat Bars!

-- program is finished running --

Reason why you get “endless...” statement is because if you only need one wrapper for a new candy bar, you can always exchange it for a new bar, then exchange that wrapper for another, and so on.

Picture of Output:

Welcome to BobCat Candy, home to the famous BobCat Bars!

Enter the price of each BobCat Bar:

**** user input : 2

Enter the number of wrappers needed to exchange for new bar:

**** user input : 1

How much money do you have?

**** user input : 4

Good! Let me run the numbers ...

First, you buy 2 bars.

Come back anytime for endless exchanges of BobCat Bars!

-- program is finished running --

Test 6:

Enter the number of wrappers needed to exch

Welcome to BobCat Candy, home to the famous BobCat Bars!

Enter the price of each BobCat Bar:

**** user input : 6

Enter the number of wrappers needed to exchange for new bar:

**** user input : 4

How much money do you have?

**** user input : 32

Good! Let me run the numbers ...

First, you buy 5 bars.

Then you will get another 1 bars.

With \$32 you will receive a maximum of 6 BobCat Bars!

-- program is finished running --

Picture of Output:

```
Welcome to BobCat Candy, home to the famous BobCat Bars!
Enter the price of each BobCat Bar:
**** user input : 6
Enter the number of wrappers needed to exchange for new bar:
**** user input : 4
How much money do you have?
**** user input : 32
Good! Let me run the numbers ...
```

```
First, you buy 5 bars.
Then you will get another 1 bars.
With $32 you will receive a maximum of 6 BobCat Bars!

-- program is finished running --
```

Test 7:

Welcome to BobCat Candy, home to the famous BobCat Bars!

Enter the price of each BobCat Bar:

**** user input : 0

Enter the number of wrappers needed to exchange for new bar:

**** user input : 1

How much money do you have?

**** user input : 6

Good! Let me run the numbers ...

FREE candy bars for everyone!

-- program is finished running --

If the price of a candy bar is \$0 (i.e. free) a special message prints out and terminates the program.

Picture of Output:

```
Welcome to BobCat Candy, home to the famous BobCat Bars!
Enter the price of each BobCat Bar:
**** user input : 0
Enter the number of wrappers needed to exchange for new bar:
**** user input : 1
How much money do you have?
**** user input : 6
Good! Let me run the numbers ...
FREE candy bars for everyone!
```