

## Input:

```
#3 types of command
data [Item] [Value]
addChart [ChartType]
change [ChartType] [Item] [Value]
```

## Output:

After change command:

```
Print("[ChartType] change [Item] [Value].")
display all charts in specific format
```

#Spreadsheet format:

```
[Item] [Value]
[Item] [Value]
...
```

#BarChart format:

```
[Bar] [Item]
[Bar] [Item]
...
```

#PieChart format:

```
[Item] [Percentage]%
[Item] [Percentage]%
...
```

note1:

display charts in input order  
display Items in input order

note2:

[Bar] format -> [Value] number of "="  
e.g.  
[Item] = "Apple", [Value] = 3  
=== Apple

note3:

Percentage =  $100 * \text{Value} / \text{sum}(\text{all the values})$   
Round [Percentage] to one decimal place.

### Comment:

[ChartType] is limited to "Spreadsheet", "BarChart" and "PieChart".

[Value] is guaranteed to be non-negative integer.

Display charts in addChart order, and data in input order.

In “change” command, [Item] may not exist in data. You should add and then display.

Please don't ignore the periods in output.

Please implement your main function in Class Main.

We'll test your program through "java Main inputFile"

e.g java Main sampleInput

Do not read input from System.in or hard code input file, or your program won't pass any test case.

### Upload:

Please zip your source code and upload it.

The file name should be Team[teamID].zip. e.g. Team7.zip

The folder structure should be:

unzip Team7.zip

=> [dir] Team7

=> Team7/Main.java

=> Team7/\*.java (optional)

**You won't receive any point if you didn't follow the directory structure or main class name or compressed format!**

**#SampleInput:**

data Seafood 8  
data RollsRoyce 2  
data BoxOfficeStaff 3  
addChart Spreadsheet  
addChart BarChart  
addChart PieChart  
change Spreadsheet CustomerServiceStaff 2

**#SampleOutput:**

Spreadsheet change CustomerServiceStaff 2.  
Seafood 8  
RollsRoyce 2  
BoxOfficeStaff 3  
CustomerServiceStaff 2  
===== Seafood  
== RollsRoyce  
=== BoxOfficeStaff  
== CustomerServiceStaff  
Seafood 53.3%  
RollsRoyce 13.3%  
BoxOfficeStaff 20.0%  
CustomerServiceStaff 13.3%