## Phone Processes

Marto has a new **ай**phone. He made a plan to run some applications in a specific order. But every app consumes a chunk from the phone's battery. Since he is a bad programmer he needs your help.

Write a program to check the current battery power level after every application and if the battery has **15% power or less** (because it is an **ай**phone), **print on the console the percentage left and count of application remaining.** If the battery has dieddisplay on the console the message **“Phone Off”.** If all applications have executed successfully and the battery has more than 15% power left, display - **successful complete** and percentage battery left.

### Input

* On first line you will receive battery percentage left on start in format **[number%]**
* On every next line you will receive string in format **[applicationName]\_[number%]** till read the string **“END”** for stop the program. The **“END” string could be “enD”, “eNd”, etc.**

The input will always be valid and in the format described, there is no need to check it explicitly.

### Output

\*If battery is 15% or less **“Connect charger -> X%”** and on new line **“Programs left -> N”** - where “X” is percentage left and “N” is program left to execute.

\*If battery is 0 or less display: **“Phone Off”**.

\*If execute all applications and battery have more than 15%. **“Successful complete -> N%” N –** is remaining power.

### Constraints

* Starting percentage is an integer number in range [1..100]
* Application name will always contains Latin letters only
* Percentage will always be a 2 digit number in range [01..99] **(always will have 2 digits! And % after that)**
* Allowed working time: 0.2 seconds. Allowed memory: 16 MB.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 60%  skype\_50%  viber\_21%  END | Connect charger -> 10%  Programs left -> 1 | 60% start – 50% = 10%  10% <=15%  Print notice to charge the battery. |

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Output** | **Input** | **Output** |
| 100%  skype\_50%  viber\_21%  END | Successful complete -> 29% | 20% skype\_21% END | Phone off |

### Get the initial power of the phone

You could get the string from the console and then try to parse it. Be careful, there is ‘%’ at the end of the string, so a simple parse won’t do the trick.

Search in internet how you could replace a symbol in a string.



### Use Boolean values to know the state of the phone

The Boolean values are very useful. Especially in such cases.

<http://www.dotnetperls.com/bool>

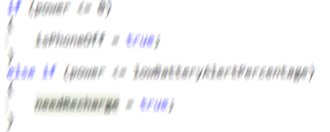


### Use a counter for the remaining programs

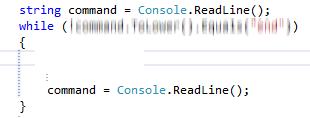
You will need a counter for the remaining programs in case the phone battery is low.

### Before you continue with the programs make a check

You should check if the initial battery percentage is not already less or equal to 15 or less or equal to 0 and change the Boolean values accordingly.

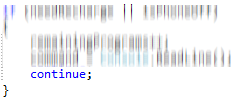


### Begin the while loop

Read the command from the console and make the condition to exit the loop. Don’t forget to read the next command from the console every time you begin the loop.

### Make the logic inside the loop. This is your task. Enough help for now :)

Ok, ok. A little bit more help. If you want to stop executing part of the code inside a loop you could use continue. This one is a special command in c# and it jumps over the entire code after and continue the loop.



### Get the percentage every program uses

In order to do the above you could use this code



* command.Substring(command.Length - 3, 2)
* Substring() – returns a substring from the current string – search in internet.
* command.Substring(int start, int length) – gets two parameters.
* start - the start position at the string. Remember the string indexes are zero based.
* length – the length of the substring.

Example:  
start = command.Length – 3  
length = 2

  
start = 9 – 3 = 6  
length = 2  
So the result is from index 6 to index 7.   
The result is 50. We can parse that number without an error.

### The last step is to print on the console the result

Try not to look at the code.

