# Problem 3. Cooking Factory

The George`s Cooking factory got another order. But this time you are tasked to bake   
**the best Bread for a special party**.

Until you receive a command "Bake it!" you will be receiving strings, the batches of bread. Each string is an **array of numbers, split by "#".** Each element is a **bread and the number represent its quality.**

You should select the batch with the **highest total quality of bread**.

If there are several batches with **same total quality** select the batch with the **greater average quality.**

If there are several batches with same **total quality and average quality, take** the one with the **fewest elements (length)**.

## Input / Constraints

* Until you receive a command "Bake it!" you will be receiving strings, the batches of bread. Each string is an **array of numbers, split by "#".** Each element is a **bread and the number represent its quality.**
* Each batch will have from 1 to 10 elements.
* Bread quality is an integer in the range [-100, 100].

## Output

* After you receive the last command "Bake It!" you should print the following message:

"Best Batch quality: {bestTotalQuality}"

"{bread batch, joined by space}"

## Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 5#4#10#-2  10#5#2#3#2  Bake It! | Best Batch quality: 22  10 5 2 3 2 | We receive 2 batches, but the second is printed, because its total quality is better**.** |
| **Input** | **Output** | **Comments** |
| 5#3#2  10#2#-2#1#-1  4#2#1  Bake It! | Best Batch quality: 10  5 3 2 | We receive 3 sequences. Both 1 and 2 **have same total quality** -> 10, but the first is printed, because its **has better average quality 3.(333).** |

... Kaminoans: Diet – unknown …