# "Programming Basics" Exam

## 5. Excursion Sale

A travel company is selling off final end-of-year excursion packages. Write a program, which calculates the profit from the sale and whether or not all packages are sold, **given the initial number of tours and their prices**. **The company offers two types of excursions – ("sea") for a price of 680 USD and ("mountain") for a price of 499 USD. When choosing a package, the corresponding price is added to the total amount. When choosing a package that is no longer available (its count is 0), it should not be added to the total price.**

### Input:

1. **Number of sea excursions– an integer in the range [1… 500]**
2. **Number of mountain excursions – an integer in the range [1… 500]**

**Then, one line at a time is read until the "Stop" command is received or until the company has sold all the packages:**

* **Package name –one of the following strings: "**sea**" or "**mountain**"**

### Output:

Print **1 or 2 lines, depending on the output**:

* If the company has managed to sell all packages:  
  "**Good job! Everything is sold.**"

Always print:

"**Profit: {profit from the sales} USD.**"

### Sample Input and Output:

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| 2  2  sea  mountain  sea  sea  mountain | Good job! Everything is sold.  Profit: 2358 USD. | The company offers 2 packages for sea and 2 for mountain.   * The first one is a sea package.   680 USD is added to the profit.  The number of sea packages is lowered by 1.   * The second one is a mountain package.   499 USD is added to the profit.  The number of mountain packages is lowered by 1.   * The third one is a sea package.   680 USD is added to the profit.  There are no more sea packages.   * The fourth package is also for sea, but as we don’t have more sea packages, we ignore the command. * The fifth one is a mountain package.   499 USD is added to the profit.  The remaining sea and mountain packages are sold => the program ends.  Profit: 680 + 499 + 680 + 499 = 2358 USD. |

|  |  |  |
| --- | --- | --- |
| 6  3  sea  mountain  mountain  mountain  sea  Stop | Profit: 2857 USD. | The company offers 6 packages for sea and 3 for mountain.   * The first one is a sea package   The number of sea packages is lowered by 1.   * The second one is a mountain package.   499 USD is added to the profit.  The number of mountain packages is lowered by 1.   * The third one is a mountain package.   499 USD is added to the profit.  The number of mountain packages is lowered by 1.   * The fourth one is a mountain package.   499 USD is added to the profit.  The number of mountain packages is lowered by 1  There are no more mountain packages.   * The fifth one is a sea package.   680 USD is added to the profit.  The number of sea packages is lowered by 1.  We receive the Stop command, and the sale ends.  Final profit: 2857 USD. |