# C++ Fundamentals Exam

# The following tasks should be submitted to the SoftUni Judge system.

# Task 2 – Space

You are a spaceship (marked as **"K"**) on a quest to gather as much space dust as possible. In order to collect the space dust, you must reach a planet, marked as **V**, **S**, **U** or **N**. Once you've reached a valid planet, you should **increase your space dust value** with the **ascii value of the planet's symbol** (Example: V -> 86). If you reach an invalid planet, you lose **half of your current space dust**. If you go out of the matrix, you lose **quadruple of your current space dust**. The planets that you have reached should be marked with **"-"**

The valid commands you will receive are:

**L** -> Left  
**R** -> Right  
**U** -> Up  
**D** -> Down  
**S** -> Stop

You are to move until you reach command "**S**".

After you have stopped moving, you should print the sum of the space dust you have collected and the initial space dust in this format: "**Space Dust Collected: {spaceDust}**" and **the matrix** afterwards

### Input

* On the **first line**, you are given the integer **N** - **number of rows and columns** of the matrix
* On the **second line**, you are given a sequence of elements **- the matrix**
* On the **third line,** you are given the **initial space dust**
* On the next **lines**, you are given certain commands – **L, R, U, D**
* On the final line, you receive the command – **"S"**

### Output

* Print the collected **space dust** and **the matrix.**

### Constraints

* The size of the matrix will be between **[2…5]**
* The spaceship will always be indicated with '**K**'
* The valid planets will always be indicated with '**V**', '**S**', '**U**' or '**N**'
* There will be cases, where invalid and valid symbols are repeated
* There will not be a case, where the space dust become a floating point number

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 3  J V E  a K M  Z F A  10  U  R  D  D  L  S | Space Dust Collected: 6  J - -  a - -  Z K - |