# **Memory Management – Lab**

Submit your solutions here: https://judge.softuni.org/Contests/4620/Memory-Management-Lab

## 1. MinBy

Write a program that:

- Reads input string from the first line (sequence of words, separated by space)
- Reads integer number from the second line
- If the number is equals to:
  - o 1 -> find and print the string that is earliest lexicographically
  - 2 -> find and print the shortest string
  - 3 -> find and print the longest string

#### **Examples**

Input	Output
hear the rime of the ancient mariner see his eyes as he stops one of 3	ancient
e abc df e 1	abc

#### 2. Remove Invalid

Write a program that:

- Reads info about companies in the following format: {name} {id}
- Read infos until you receive command "end"
- Print all companies with a valid id

**Note**: Valid ids are **non-negative**.

### **Examples**

Input	Output
123 valid -123 invalid 321 ancientmarinerinc end	123 valid 321 ancientmarinerinc
42 noinvalidhere end	42 noinvalidhere











