# Homework: Functional Programming and Stream API

This document defines homework assignments from the [“Java Basics“ Course @ Software University](https://softuni.bg/courses/java-basics/). Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

Note: the count of the input strings is not explicitly specified, so you might need to read the first input line as a string and split it by a space.

## Filter Array

Write a program that filters an array of strings, leaving only the strings with length greater than 3 characters. Use .**filter()**

|  |  |
| --- | --- |
| **Input** | **Output** |
| Gosho gos pesho pes blabla bla | Gosho pesho blabla |
| Kogato cyfnat nalymite. | Kogato cyfnat nalymite. |
| To be, or not to be. | (empty) |

## Sort array with stream API

Use the .sorted() method to sort an array of integers. The first line of input is the array. The second is the sorting order.

|  |  |
| --- | --- |
| **Input** | **Output** |
| 6 8 3 1 7 2 2 5  Ascending | 1 2 2 3 5 6 7 8 |
| 6 8 3 1 7 2 2 5  Descending | 8 7 6 5 3 2 2 1 |