**Algorithms Fundamentals with Java: Exam**

This document defines the exam preparation for ["Algorithms – Fundamentals (Java)" course @ Software University.](https://softuni.bg/trainings/3811/algorithms-fundamentals-with-java-june-2022)  Please submit your solutions (source code) of all below described problems in [Judge](https://judge.softuni.org/Contests/3593/Algorithms-Fundamentals-with-Java-Exam-31-July-2022).

1. **The Tyrant**

Lord Vetinari has tasked you with a strange request. He is playing a long-distance game with the lord of Überwald.  
The rules are simple by given a **sequence of positive integers** you need to find the **minimum sum subsequence from the array such that at least one value among all groups of four consecutive elements is picked**. And since Lord Vetinari is bored of that game you have been tasked to create a program that calculates the solution.

## Input

* The input will come from the console on a single line as a sequence of integers

## Output

* The output is a single integer that represents the minimum sum.

## Constraints

* The input will contain only positive integers.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 1 2 3 4 5 6 7 8 | 6 |
| 11 34 23 8 1 3 5 13 4 69 | 13 |

"We can't just drop everything, sir!"  
"Mister Lipwig. Is there something in the word 'tyrant' you do not understand?"  
― **Terry Pratchett,**[**Raising Steam**](https://www.goodreads.com/work/quotes/16202400)