# C++ Advanced – Exam

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

## The Matrix

Given a matrix, write a program that calculates the SUM of the **prime** numbers BELOW the two diagonals.

HINT – a prime number is a number that can be divided by 1 and himself ( 1, 3, 5, 7, 13, 17 ... )

The maximum size of matrix should be **100x100**

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 3  1 3 3  1 5 3  1 2 3 | 2 | \* 3 \*  1 \* 3  \* **2** \*  \* - Diagonals  **2** - Is the prime number under the 2 diagonals |
| 5  1 2 3 4 5  1 2 3 4 5  1 2 3 4 5  1 2 3 4 5  1 2 3 4 5 | 8 | \* 2 3 4 \*  1 \* 3 \* 5  1 2 \* 4 5  1 \* **3** \* 5  \* **2 3 4** \*  \* - Diagonals  **3** + **3** + **2** = 8  8 - Is the SUM of the prime numbers |
| 3  1 1 1  1 1 1  1 1 1 | 1 |  |