|  |  |
| --- | --- |
| **Assignment Case** | Description: LogoBINUS-University |
| CH1Special |
| **Periode Berlaku** Semester Ganjil 2021/2022  ***Valid on*** *Odd Semester Year 2021/2022* | **Software Laboratory Center**  **Assistant Recruitment 22-1** |

## **Soal**

*Case*

**The Biggest Island**

You are a pirate that wants to settle down with your “booty” on an island (it means treasures in pirate language). But you are a greedy pirates, so you want to find **the biggest island** in the area.

**Input**The program will ask for two integers, **y and x**. For the next **y-lines** there will be **x-integers** that will be form into a **grid.**

**Constraint**

1 ≤ sizeof(x), sizeof(y) ≤50

grid[y][x] is either 0 or 1.

**Output**Print the **maximum area** of the island.

**Example (Print out one ‘\n’ at the end of the results)**

|  |  |
| --- | --- |
| **Input** | **Output** |
| 8 13  0 0 1 0 0 0 0 1 0 0 0 0 0  0 0 0 0 0 0 0 1 1 1 0 0 0  0 1 1 0 1 0 0 0 0 0 0 0 0  0 1 0 0 1 1 0 0 1 0 1 0 0  0 1 0 0 1 1 0 0 1 1 1 0 0  0 0 0 0 0 0 0 0 0 0 1 0 0  0 0 0 0 0 0 0 1 1 1 0 0 0  0 0 0 0 0 0 0 1 1 0 0 0 0 | 6 |
| 1 8  0 0 0 0 0 0 0 0 | 0 |

**Explanation**

**Table

Description automatically generated**

**Figure 1. First Test Case**

The area of all islands (that are labelled green) are 1, 4, 4, 5, 6 and 5. The biggest area is 6, so the result are 6.