We are given a matrix of strings of size N x M. Sequences in the matrix we define as sets of several neighbour elements located on the same line, column or diagonal. Write a program that finds the longest sequence of equal strings in the matrix and prints its length.

#### **Input**

* On the first line you will receive the numbers **N** and **M** separated by a single space
* On the next **N** lines there will be **M** strings separated with spaces - the strings in the matrix

#### **Output**

* Print the length of the longest sequence of equal equal strings in the matrix

#### **Constraints**

* 3 <= **N**, **M** <= 128
* Time limit: **0.1s**
* Memory limit: **16MB**

#### **Sample tests**

| Input | Output |
| --- | --- |
| 6 6 92 11 23 42 59 48 09 92 23 72 56 14 17 63 92 46 85 **95** 34 12 52 69 23 **95** 26 88 78 71 29 **95** 26 34 16 63 39 **95** | 4 |