Lab6:
Arrays

UNT CSCE1030 Summer 2021

TA Polina Nemkova

Arrays: basics

Array is a collection of values of the same datatype.

Declaration:

datatype name_of_array[int_length_of_array]

For example:

int SIZE=7

floats usd_euro[SIZE]

2D Arrays

1. Imagine Excel sheet – that's a 2D array. Similarly,2D array has rows and columns.

2. How to declare?
   datatype name**[number_of_rows][number_of_colums]**

3. How to access values?
   name[i][j]

Examples

```
//Declaring an integer array of size 10 using a constant variable
//for size

const int SIZE=10;

int array[SIZE];
```

Tips for part B

In order to find a row minimum, declare a variable (row_minimum) and assign it to the first value in a row. After that make a loop where you compare this value to the nest value in a row. In the next value is lower, then it's a new minimum.

(In the similar logic find the column minimum).

Tips for part C

Bad news: Go for a nested for-loop!

Good news: It's very short code.

Tip: Use temporary variable to swap values of the array.