Assignment 3 -- Arrays

The aim of the tasks is for you to learn how to declare and how to use array variables.

1) Write a C++ program that reads in n names from the keyboard (n is variable and is also read in). Afterwards, the longest and the shortest name (with indication of the length) are to be output. See the example below (red data is input):

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string-min-max   (by Ferenc Liszt, V-1.99)

enter number of names: 5
enter name 1: adam
. . .
enter name 5: johannes

1: adam
2: eve
3: evgenia
4: zacharias
5: johannes
min: eve
max: zacharias

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2) Write a C++ program that uses the names of n famous locations as input data. This time, the input is not to be entered by the keyboard, but by literal initialisation of the array variable with at least 13 Ingolstadt places of interest.
First, the data is to be output as a numbered list. Then it has to be determined whether locations appear twice in the list.
The logging on the screen is to be done like this:

List of places:
1) Moritzkirche
2) Baggersee
3) THI
4) Klenzepark
. . .
Checking for duplicates:
doubly present: "THI", in line 3 and line 7
doubly present: "Reitschule", in line 5 and line 13
. . .

If no duplicates occur, this fact is noted appropriately in the output.
Avoid multiple logging of the same location pairs!