Q1. NOTE – This program must be written using a for loop (for practice try writing it with a while loop as well)

<https://classroom.github.com/a/ezjrmxiR>

Met Eireann have a number of synoptic weather stations in different locations that provide hourly reports on weather conditions in that area. Write a program which asks the user for the number of weather stations to collect data from. The program should then input a location name and corresponding temperature value for each station. The program should tell the user which station had the highest temperature along with the temperature value.

The user interface should look like this:

Enter the number of synoptic stations

4

Enter the name of station [1]

Athenry

Enter temperature recorded for [Athenry]

7

Enter the name of station [2]

Finner

Enter temperature recorded for [Finner]

4

Enter the name of station [3]

Knock

Enter temperature recorded for [Knock]

6

Enter the name of station [4]

Malin Head

Enter temperature recorded for [Malin Head]

10

[Malin Head] had the highest reported temperature with [10] degrees

The square brackets represent variables and do not need to be printed out in the output. Do not hard code these names e.g. Athenry, Finner etc. into your code.

Q2. Modify Q1 so that the program outputs a list of station names whose temperature is **above** a threshold value that the user enters. For example:

Enter the number of synoptic stations

4

Enter the temperature threshold value

5

Enter the name of station [1]

Athenry

Enter temperature recorded for [Athenry]

7

Enter the name of station [2]

Finner

Enter temperature recorded for [Finner]

4

Enter the name of station [3]

Knock

Enter temperature recorded for [Knock]

6

Enter the name of station [4]

Malin Head

Enter temperature recorded for [Malin Head]

10

[Malin Head] had the highest reported temperature with [10] degrees

[Athenry], [Knock], [Malin Head] reported temperature(s) above [5] degrees