Quiz 2

Below is a part of the final grades from two grading pools for the same TA:

Lab1 (ID 1):  83, 87, 72, 96, 81, 87, 86, 88, 92, 90, 78, 80.
Lab2 (ID 2):  88, 85, 90, 85, 83, 84, 80, 91, 86, 83, 82, 83.

Your program should:
1. Prompt the output telling to which lab (in lab ID) does the maximum score and the minimum belong;
2. Compare the performance of these two grading pools from the perspective of 1) mathematical expectation (mean) and 2) standard deviation. Have your conclusion as long as the expected value, standard deviation, and some explanations output to screen.

Your program must be implemented with two-dimensional array & function. Other than this constraint, you are left with great flexibility on how to code your program.

\[
E(X) = \sum_i x_i p(x_i), \quad \mu = E(X), \quad \sigma = \sqrt{E[(X - \mu)^2]} = \sqrt{\frac{1}{n} \sum_{i=1}^n (x_i - \mu)^2}
\]