Part 1:

- 1-A program to take a character from the user, and then display its ASCII code.
- 2-Same program but vice versa.
- 3-A program to take a num from user and display odd or even based on this num.
- 4-A program to take two numbers and print the sum, subtraction, multiplication.
- 5-A program to take student degree and calculate grade
- 6-Multiplication table

Part 2:

1-A program to store students grades in OOP course

- take number of student , student grades from user
- print grades
- calculate average for all students grades

2- Consider an Array of Integer values with size N, having values as in this Example

7	0	0	0	5	6	7	5	0	7	5	3

Your task will be to write a program find the longest distance between Two equal cells. In this example. The distance is measured by the number Of cells- for example, the distance between the first and the fourth cell is 2 (cell 2 and cell 3).

In the example above, the longest distance is between the first 7 and the 10th 7, with a distance of 8 cells, i.e. the number of cells between the 1st And the 10th 7s.

Note:

- Array values will be taken from the user
- If you have input like 1111111 then the distance is the number of Cells between the first and the last cell.

Bonus:

- Define array of integer ,take size and data from user
 - 1- Write a program to calculate the sum of all elements in an integer array
 - 2- Write a program to find the maximum element in an integer array
 - 3- Write a program to reverse the elements of an array without using reverse function
 - 4- Write a program to count the number of occurrences of a specific element in an array
 - 5- Write a program to remove duplicate elements from an array.
 - 6- Write a program to find the second largest element in an array.
 - 7- Write a program to find the index of the minimum element in an array.
- How can you count the occurrence of 1 from 1 to 99,999,999 (1 short of 100 million) and total up how many 1s were there.

(Convert Numbers to String in Case one and use String Functions to Count 1s, Use Only Mathematical Functions and Numeric values in case 2 and see the difference in performance)

Is There Any Other Way to Do it in Approximately 1 Second or less