

Lab assignment 2

Date:

M. Sc. 2nd year (fourth semester)

Group A & B

'do-while' loop: `do {p=y%10; k++; y=y/10;} while (p!=big); printf("position of biggest digit=%d", k);` This program finds the position of biggest digit 'big' in a integer 'y'.

Reading in a 'for' loop: `printf("Give n"); scanf("%d",&n); printf("Give %d numbers", n); for(i=1;i<=n;i++){scanf("%d",&x); s=s+x;} printf("reqd. Sum=%d",s);` This program reads 'n' and 'n' numbers and find their sum.

1. Read a number. Reverse the number. Hence find the biggest digit and its position from the beginning and last.
Ex: Input: 25697 Output 1= 79652, output 2= 9, output 3=2, output 4=4.
2. Read a number and find kth even digit from the last.
Ex: input 23687 and k=2 output 6.
3. Write a program to print the digit immediately after the first even digit from beginning.
Ex: input 71236 output 3
4. Read 'n' and 'n' numbers and find sum of second last digits.
Ex: Input: 'n'=5, given numbers are 33, 100, 77, 42, 12. Output: 3+0+7+4+1=15
5. Read 'n' and 'n' numbers and find sum of numbers after deleting second last digits.
Ex: Input: 'n'=5, given numbers are 332, 145, 770, 412, 182. Output: 32+15+70+42+12=171
6. Read 'n' and 'n' numbers and find sum of those numbers which are between 's' and 't'.
Ex: for problem 5, outputs are: 33+42+77=152, when 's'=30 and 't'=90
7. Read 'n' and 'n' numbers and find the average of odd numbers.
Ex: input for problem 5, output = (33+77)/2=55.
8. Read 'n' and 'n' numbers and find weighted sum of even numbers. The weight of ith even number is i.
Ex: input for problem 5, output= 2x100+4x42+5x12=428