In following programs only one loop should be used unless essential

1. Write program to delete the last k digits. input 23617 and k=3 output 23. k=2, 236
2. Write program to print the kth digit from last. input 23617 and k=4 output 3. k=2, 1
3. Write a program to print first digit. e.g. input 23617 output 2. Input 714 output 7.
4. Write program to output the product of first digit and number. For above input 2\*23617=47234 and 7\*714=4998.
5. Write program to print the second digit. input 23516 the output is 3. Input 714, 1.
6. Write program to find sum of all digits. Input 23617 outputs 2+3+6+1+7=19.
7. Write a program, which will find sum of product of consecutive digits of a number. e.g. when the input is 23145 the output is 2x3 + 3x1 + 1x4 + 4x5 = 33. Input 754 output 55.
8. Write a program, which reads two number (assume that both have same number of digits). The program outputs the sum of product of corresponding digits. Input 327 and 539 output 3x5+2x3+7x9=84. Input 5624 & 6435 output 5x6+6x4+2x3+4x5=80.
9. Write a program to print positional values of digits of a number. Input 21463 output 3, 60, 400, 1000 and 20000. Input 451 outputs 1, 50 and 400.
10. Write a program to find sum of even digits of a number. Input: 23617 output: 2+6=8. Input: 4856, output:18.
11. Write a program to find number of digits of a number. Input 423 output 3. Input 21151 output 5.
12. Write a program to find number of even digits of a number. Input 423 output 2. Input 21151 output 1.
13. Write a program to print the last even digit of a number. e.g. input 23613 output 6.

[Hint: while (x%20) x=x/10]

1. Write a Program to print the digit immediately before the last even digit. input 23613 output 3
2. Write a program to print the digit immediately after the last even digit of a number. input 23613 output 1
3. Write a program to print the last digit of an integer number, which is multiple of 3. e.g. input 23617 output 6.
4. Write a program to print the second last even digit. e.g. input 23863 output 8 (do not use ‘if’). Input 325145761 output 4. [Hint: use two loops]
5. Read a number. Do half of number after last odd digit of that number. Then result is multiplied by 3 as output. Input 61389426 output 184167639 (61389213\*3). Input 87 output 261. Input 78 output 222 (74\*3).
6. Write a program, which finds the sum of numbers formed by consecutive digits of an integer number. Input 2415 output 24+41+15=80.
7. Write a program to find sum of numbers formed by exchanging consecutive digits. Input 2415 output: 42+14+51=107.
8. Write a program to print the first even digit of a number form first. e.g. input 71236 output 2.
9. Write a program to print digits, which are multiple of 3 of a number. e.g. input 23617 output 6,3.
10. Write a program, which gives the sum of digits at even location of a integer number. Input 2314 output 3+4=7. Input 72314 output: 7+3+4=14 Input 572314 output 7+3+4=14.
11. Write a program, which reads an integer and prints another integer. In the output all even digits are retained and odd digits are decrement by 1. e.g. input 23145 output 22044.
12. Write a program to prints the biggest digit and its location (from last). e.g. in 7396348 biggest digit is 9 and its location is 5th from last.
13. Write a program to prints the biggest digit and its location (from beginning). e.g. in 7396348 biggest digit is 9 and its location is 3rd from beginning.
14. Write a program, which reads an integer and prints another integer. The output is reverse of the input. e.g. for input 27921 the output is 12972. Also print the double of the answer (i.e. 25944).
15. Write a program to print the digit immediately before the first even digit. e.g. input 71236 output 1.
16. Write a program to print the digit immediately after the first even digit. In above case 3.
17. Write a program to print the kth even digit from last. e.g. input 23687 and k=2 output 6.
18. Write a program, which deletes all digits except last k digits. e.g. input 23617 and k=3 output 617.
19. Write a program to delete the kth digit from last. e.g. input 23617 and k=4 output 2617.
20. Write a program to print the kth digit e.g. input 23617 and k=4 output 1.
21. Write a program to delete first kth digits e.g. input 23617 and k=2 output 617.
22. Write a program, which reads a number the finds special sum. If number is 2314 then output is 4 + 14 + 314 + 2314 = 2646. If input number is 223 then output is 3 + 23 + 223 = 249. If input is 12564 then output is 4 + 64 + 564 + 2564 + 12564 = 15760.
23. Write a program, which reads a number the finds special sum in the following way. If number is 2314 then output is 2314 + 231 + 23 + 2 = 2570. If input number is 223 then output is 223 + 22 + 2 = 247.
24. Write a program, which reads a number the finds special product. If number is 2314 then output is 4 + 1x4 + 3x1x4 + 2x3x1x4 = 44. If input number is 223 then output is 3 + 2x3 + 2x2x3 = 21.
25. Write a program, which reads a number and finds the location of last even digit. If the number is 18263 then the output is 4 since the last even digit 6 occurs at 4th place.
26. Write a program, which reads a number and finds the location of first even digit. If the number is 18263 then the output is 2 since the first even digit occurs at 2nd place.
27. Write a program, which reads a number and prints a number after deleting the first digit. If input is 2314 then output is 314. If input is 56 then output is 6.
28. Write a program, which reads a number x and a digit (integer) y and puts y as first digit in x. If x=2531 and y=8 then output is 82531.
29. Write a program, which reads a number and adds 1 to every digit. If input is 2314 then output is 3425. Assume that no digit is 9.
30. Write a program, which reads a float number and an integer k and prints number by adding 1 to the first k digits. If input is 0.241573 and k is 4 then output is 0.352673. Assume that given number is between 0 and 1.
31. Write a program, which reads an integer and prints another integer. In the output all even digits are retained and odd digits are removed. e.g. input 23145 output 24.
32. Write a program, which reads an integer (n) and n digits of a number (integer) in reverse order. The program outputs the number. e.g. n=5 and digits are 3 2 5 1 2 the output is 21523.
33. Write a program, which reads two integers a and b and outputs a/b correct to 5 places of decimal. The program should not use any float variable or “%f”. (assume a<b)
34. Write a program, which reads a float number (between 0 and 1) and prints the sum of its first five digits. e.g. input 0.231562 output 2+3+1+5+6 = 17.
35. Write a program, which reads an integer (n) and n digits of a float number (between 0 and 1) in correct order. The program outputs the number. e.g. n=5 and digits are 3 2 5 1 2 the output is 0.32512.
36. Write a program which reads a float x (between 0 and 1) and outputs a float y. Every digit of y is one more than the corresponding digit in x. e.g. input 0.23156 output 0.34267. We assume that all digits of x are less then 9.

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| int x,k,i,sum=0;  scanf("%d%d",&x,&k);  for (i=1;i<=k;i++)  { sum=sum+(x%10);  x=x/10;  }  printf("%d ",sum); | int x,d;  printf("Give number:");  scanf("%d",&x);  do  { d=x%10;  printf("%d,",d);  x=x/10;  } while (x>0); | int x,d,y=0,t=1;  scanf("%d",&x);  while (x>0)  { d=x%10;  if (d%2==0)  { y=y+t\*d;  t=t\*10; }  x=x/10; }  printf("%d",y); |
| The program to find the sum of last k digits of a number. | The program to print all digits of a number | program deletes odd digits. |