

```
#include<stdio.h>
void rev(void);
void main()
{
    rev();
}
void rev()
{
    char c;
    c=getchar();
    if(c=="\n")
        return;
    else
    {
        rev();
        putchar(c);
        return;
    }
}
```

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```
#include<stdio.h>
int gcf(int,int);
void main()
{
    int n1,n2;
    printf("Enter Two values:");
    scanf("%d %d",&n1,&n2);
    printf("The gcf of %d and %d is
%d\n",n1,n2,gcf(n1,n2));
}
int gcf(int a, int b)
{
    int r;
    if(a%b==0)
        return(b);
    else
    {
        r=a%b;
        a=b;
        b=r;
        return(gcf(a,b));
    }
}
```

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```
#include<stdio.h>
int count(void);
void main()
{int i;
    for(i=1;i<=5;i++)
        printf("%d\n",count());
}
int count(void)
{
    int a=0;
    a++;
    return(a);
}
```

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```
#include<stdio.h>
```

```
int dctn(int);
void main()
{
    int num;
    printf("Number:");scanf("%d",&num);
    printf("The count of digits is %d\n",dctn(num));
}
```

```
int dctn(int n)
{static int ctn=0;
    if(n==0)
        return(ctn);
    else
    {
        ctn++;
        return(dctn(n/10));
    }
}
```

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### Problems

1. Write a program in C to calculate the sum of numbers from 1 to n using recursion
2. Write a program in C to Print Fibonacci Series using recursion.
3. Write a program in C to print the array elements using recursion.
4. Write a program in C to find the sum of digits of a number using recursion.
5. Write a program in C to get the largest element of an array using recursion.
6. Write a program in C to reverse a string using recursion.
7. Write a program in C to convert a decimal number to binary using recursion.
8. Write a program in C to check a number is a prime number or not using recursion.
9. Write a program in C to find the LCM of two numbers using recursion.
10. Write a program in C to print even or odd numbers in given range using recursion.
11. Write a program in C to calculate the power of any number using recursion.
12. Write a program in C to find the Hailstone Sequence of a given number upto 1.
13. Write a program in C to copy One string to another using recursion.
14. Write a program in C to find the first capital letter in a string using recursion.