

Write a recursive function to print first N natural numbers

```
#include<stdio.h>
void printN(int);
int main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d",&n);
    printN(n);
    printf("\n");
    return 0;
}
void printN(int n)
{
    if(n==1)
    {
        printf(" %d ",n);
        return ;
    }
    printN(n-1);
    printf(" %d ",n);
}
```

Write a recursive function to print first N natural numbers in reverse order

```
#include<stdio.h>
void printN(int);
int main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d",&n);
    printN(n);
    printf("\n");
    return 0;
}
void printN(int n)
{
    if(n==1)
    {
        printf(" %d ",n);
        return ;
    }
    printf(" %d ",n);
    printN(n-1);
}
```

```
}
```

Write a recursive function to print first N odd natural numbers

```
#include<stdio.h>
void printN(int);
int main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d",&n);
    printN(n);
    printf("\n");
    return 0;
}
void printN(int n)
{
    if(n==1)
    {
        printf(" %d ",n);
        return ;
    }
    printN(n-1);
    printf(" %d ",2*n-1);
}
```

Write a recursive function to print first N odd natural numbers in reverse order

```
#include<stdio.h>
void printN(int);
int main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d",&n);
    printN(n);
    printf("\n");
    return 0;
}
void printN(int n)
{
    if(n==1)
    {
        printf(" %d ",n);
        return ;
    }
    printf(" %d ",2*n-1);
    printN(n-1);
}
```

```
}
```

Write a recursive function to print first N even natural numbers

```
#include<stdio.h>
void printN(int);
int main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d",&n);
    printN(n);
    printf("\n");
    return 0;
}
void printN(int n)
{
    if(n==1)
    {
        printf(" %d ",2*n);
        return ;
    }
    printN(n-1);
    printf(" %d ",2*n);
}
```

Write a recursive function to print first N even natural numbers in reverse order

```
#include<stdio.h>
void printN(int);
int main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d",&n);
    printN(n);
    printf("\n");
    return 0;
}
void printN(int n)
{
    if(n==1)
    {
        printf(" %d ",2*n);
        return ;
    }
    printf(" %d ",2*n);
    printN(n-1);
}
```

Write a recursive function to print squares of first N natural numbers

```
#include<stdio.h>
void printN(int);
int main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d",&n);
    printN(n);
    printf("\n");
    return 0;
}
void printN(int n)
{
    if(n==1)
    {
        printf(" %d ",n*n);
        return ;
    }
    printN(n-1);
    printf(" %d ",n*n);
}
```

Write a recursive function to print binary of a given decimal number

```
#include<stdio.h>
void printbin(int);
int main()
{
    int n;
    printf("Enter a number : ");
    scanf("%d",&n);
    printbin(n);
    printf("\n");
    return 0;
}
void printbin(int n)
{
    int i=0,j=1,rem;
    if(n==1)
    {
        printf(" %d ",n);
        return;
    }
    if(n%2==i)
    rem=i;
    else
    rem=j;
    printbin(n=n/2);
}
```

```
    printf(" %d ",rem);  
}
```

Write a recursive function to print octal of a given decimal number

```
#include<stdio.h>  
void printbin(int);  
int main()  
{  
    int n;  
    printf("Enter a number : ");  
    scanf("%d",&n);  
    printbin(n);  
    printf("\n");  
    return 0;  
}  
void printbin(int n)  
{  
    int rem;  
    if(n<=7 && n>0)  
    {  
        printf(" %d ",n);  
        return;  
    }  
    if(n%8)  
        rem=n%8;  
    else  
        rem=0;  
    printbin(n=n/8);  
    printf(" %d ",rem);  
}
```

Write a recursive function to print reverse of a given number

```
#include<stdio.h>  
void printrev(int);  
int main()  
{  
    int n;  
    printf("Enter a number : ");  
    scanf("%d",&n);  
    printrev(n);  
    printf("\n");  
    return 0;  
}  
void printrev(int n)  
{
```

```
int rem=0;
if(n<=9 && n>=0)
{
    printf(" %d ", n);
    return;
}
rem=n%10;
n=n/10;
printf(" %d ",rem);
printrev(n);
}
```