1. **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);

return 0;

}

void printN(int n)

{

if(n==1)

printf("1");

else

{

printN(n-1);

printf(" %d",n);

}

}

1. **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);

return 0;

}

void printN(int n)

{

if(n==1)

printf("1");

else

{

printf("%d ",n);

printN(n-1);

}

}

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(2\*n-1);

return 0;

}

void printN(int n)

{

if(n==1)

printf("1");

else

{

printN(n-2);

printf(" %d",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(2\*n-1);

return 0;

}

void printN(int n)

{

if(n==1)

printf("1");

else

{

printf("%d ",n);

printN(n-2);

}

}

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(2\*n);

return 0;

}

void printN(int n)

{

if(n==2)

printf("2");

else

{

printN(n-2);

printf(" %d",n);

}

}

1. **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(2\*n);

return 0;

}

void printN(int n)

{

if(n==2)

printf("2");

else

{

printf("%d ",n);

printN(n-2);

}

}

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);

return 0;

}

void printN(int n)

{

if(n==1)

printf("1");

else

{

printN(n-1);

printf(" %d",n\*n);

}

}

1. **Write a recursive function to print binary of a given decimal number**

#include<stdio.h>

void binary(int);

int main()

{

int a;

printf("Enter a number: ");

scanf("%d",&a);

printf("Binary of %d is= ",a);

binary(a);

return 0;

}

void binary(int a)

{

if(a==1)

printf("1");

else

{

binary(a/2);

printf("%d",a%2);

}

}

1. **Write a recursive function to print octal of a given decimal number**

#include<stdio.h>

void binary(int);

int main()

{

int a;

printf("Enter a number: ");

scanf("%d",&a);

printf("Binary of %d is= ",a);

binary(a);

return 0;

}

void binary(int a)

{

if(a<8)

printf("%d",a%8);

else

{

binary(a/8);

printf("%d",a%8);

}

}

1. **Write a recursive function to print reverse of a given number**

#include<stdio.h>

int rev(int,int);

int main()

{

int n,m=1,temp;

printf("Enter a number: ");

scanf("%d",&n);

temp=n;

while(temp)

{

m\*=10;

temp/=10;

}

printf("Reverse of %d is %d",n,rev(n,m/10));

return 0;

}

int rev(int n,int m)

{

int r;

if(n%10==n)

return n;

r=rev(n/10,m/10)+(n%10)\*m;

return r;

}