TowerOfHanoi.c

Saved

```c
#include<stdio.h>
void tower(int n,int src,int temp,int dest)
{
  if (n==1)
  {
    printf("Move disk 1 from %c to %c",src,dest);
    return;
  }
  tower(n-1,src,dest,temp);
  printf("\nMove disk %d from %c to %c\n",n,src,dest);
  tower(n-1,temp,src,dest);
}
void main()
{
  int n;
  printf("Enter the Number of Disks:");
  scanf("%d",&n);
  tower(n,'S','T','D');
}
```

```
Terminal

Enter the Number of Disks:4
Move disk 1 from S to T
Move disk 2 from S to D
Move disk 1 from T to D
Move disk 3 from S to T
Move disk 1 from D to S
Move disk 2 from D to T
Move disk 1 from S to T
Move disk 4 from S to D
Move disk 1 from T to D
Move disk 2 from T to S
Move disk 1 from D to S
Move disk 3 from T to D
Move disk 1 from S to T
Move disk 2 from S to D
Move disk 1 from T to D
Process finished.
```

GCD.c

Saved

```c
#include <stdio.h>
int gcd(int n1, int n2);
void main() {
        printf("---Recursive GCD---\n");
        int n1, n2;
        printf("Enter two positive integers: ");
        scanf("%d %d", &n1, &n2);
        printf("GCD of %d and %d is %d.\n", n1, n2, gcd(n1, n2));
}
int gcd(int n1, int n2) {
    if (n2 != 0)
        return gcd(n2, n1 % n2);
    else
        return n1;
}
```