

Lab-1

RecursiveTowerofHanoi.c

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

```
#include <conio.h>
```

```
void towers(int n,int source,int temp,int dest)
```

```
{
```

```
    if(n==1)
```

```
    {
```

```
        printf("move disk %d from %c to %c\n",n,source,dest);
```

```
        return;
```

```
    }
```

```
    towers(n-1,source,dest,temp);
```

```
    printf("move disk %d from %c to %c\n",n,source,dest);
```

```
    towers(n-1,temp,source,dest);
```

```
}
```

```
int main()
```

```
{
```

```
int n;  
  
printf("enter the number of disks\n");  
  
scanf("%d",&n);  
  
towers(n,'S','T','D');  
  
return 0;  
  
}
```