1)

2) Solve Towers-of- Hanoi

```c
#include <stdio.h>
void towers (int, char, char, char);

int void main ()

{
int num;
printf ("Enter the number of disks :");
scanf ("%d", &num);
printf ("The sequence of moves involved in the
        Tower of Hanoi are: \n");
towers (num, 'A', 'C', 'B');

return 0;
}
void towers (int num, char frompeg, char topeg,
        char auxpeg)
{
    if (num == 1)
    {
        print ("\n move disk 1 from peg %c to peg
        peg %c", from, topeg);
        return;
    }
    towers (num - 1, frompeg, auxpeg, topeg);
```

①

```c
printf("\n Move disk %d from peg %c to peg %c",
        num, frompeg, topeg);
towores (num-1, auxpeg, topeg, frompeg);
}
```

⑤   GCD

```c
#include <stdio.h>
int gcd (int, int);
int gcd
int main()
{
    int n1, n2, num;
    printf("Enter two positive integers: ");
    scanf("%d %d", &n1, &n2);
    printf("G.C.D of %d and %d is %d.", n1, n2,
        gcd (n1, n2));
    return 0;
    System ("pause");
}
int gcd (int n1, int n2)
{
    if (n2 != 0)
        return gcd (n2, n1 < n2);
    else
        return n1;
}
```

(2).

→ modification of obtained GCD.

```
int lcm (int n1, int n2 )
temp = n1 * n2
temp = temp / gcd (n1, n2);
returns temp;
}
```