21 Oct

21 October 2022 21:35

Sara's Phone :-

N = ~~10 & 8~~ 76

K = 3

M = 10 - 3 = ~~7~~ 4 + 3

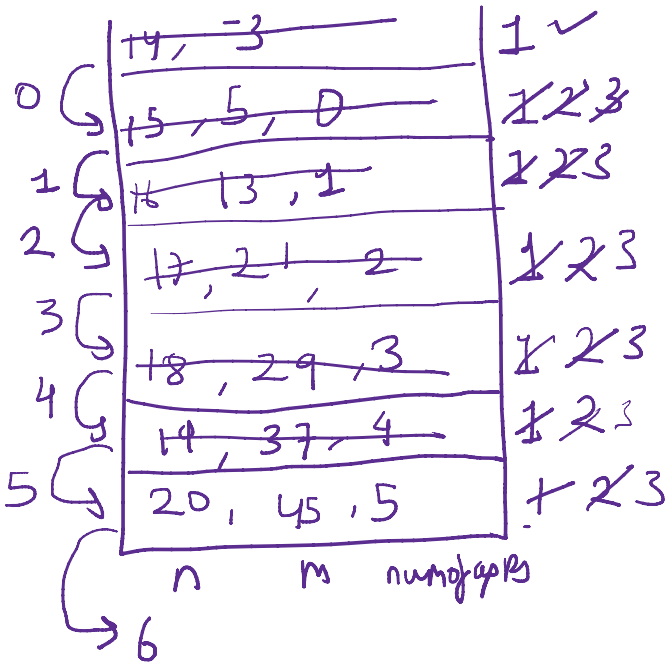
N = 10 return -1

K = 3

M = 40

```
int sol ( n, k, m ) {
    if (m ≤ 0) {
        return 0
    }
    int apps = sol (n - 1 , k, m - k);
    return 1 + apps;
}
```

```
1   static int Phone(int N, int K, int M){
2   //Enter your code here
3       if(N*K<M) return -1;
4       if(M<=0)return 0;
5       int numOfApps = Phone(N-1,K,M-K);
6       return 1+numOfApps;
7   }
```



20

8

45

N = 20

K = 8

M = 45

M/k = 45/8 = 5.6

return m/k

M = 4 -

5 8 →

if (M % K == 0) return M/K

else (M/K) + 1

Minimum Coins :-

0 1 2 3 4 5 6 7 8 9

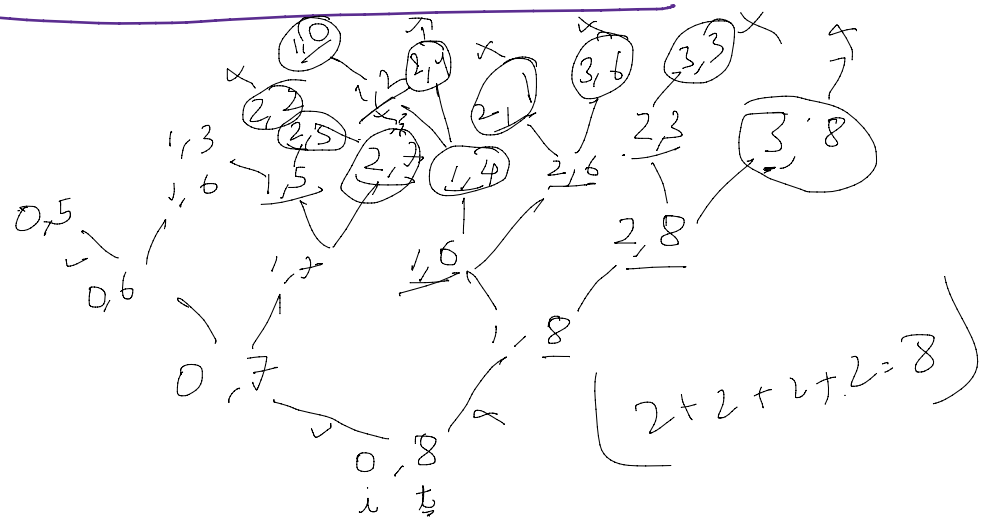
[1, 2, 5, 10, 20, 50, 100, 200, 500, 2000];

(8) = 5+2+1

= 1+1+ ... 1

= 2+2+2+2

6x1+2



int sol (arr, i, tar) {

if (tar == 0) return 0;

if (arr[i] > tar) return ∞; Integer.MAX_VAL;

if (tar < 0) return ∞;

int accept = sol (arr, i, tar - arr[i]);

int rejection = sol (arr, i+1, tar)

if (accp == ∞) return rejection

return Math.min (accept + 1, rejection);

return

}

0 1 2 3 4 5 6 7 8 9

[1, 2, 5, 10, 20, 50, 100, 200, 500, 2000];

target = 90

ans = 0

ans += target / arr[i] 40 / 20 = 1 + 2 = 3

target = target % arr[i]; 40 % 20 = 0