



Find Digit Sum

int N = 5743

return
→ faith: it will sum all digits in N.

int findSum(int N)

{

if (N == 0) return 0;

int a = findSum(N/10);

return a + (N%10);

}

get sum of
all digits of
 $\boxed{N/10}$

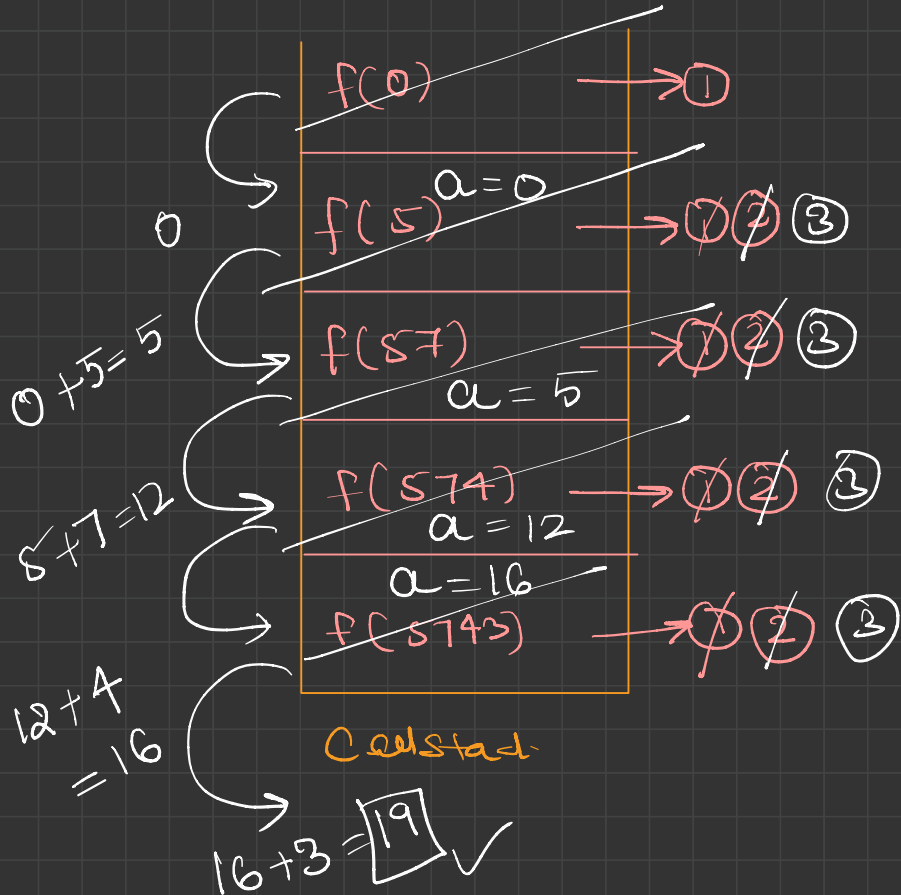
int N = 5743

int findSum(int N)

{ ① if (N == 0) return 0;

② int a = findSum(N/10);

③ return a + (N%10);
}



int N = 5743

int findSum(int N)

{ ① if (N == 0) return 0;

② int a = findSum(N/10);

③ return a + (N%10);
}

$f(5743) \rightarrow 19$

$f(574) \rightarrow 16$

$f(57)$

$f(57) \rightarrow 12$

$f(57)$

$f(5) \rightarrow 5$

$f(5)$

$f(0) \rightarrow 0$

Count 1.

$N = 21131$

$cnt = 3$

→ fourth, give cut off 1 in N.

```
int count1(int N)
{
    if (N == 0) return 0;
```

```
    int a = count(N/10);
```

```
    if (N % 10 == 1)
        return a + 1;
```

```
    else
        return a;
```

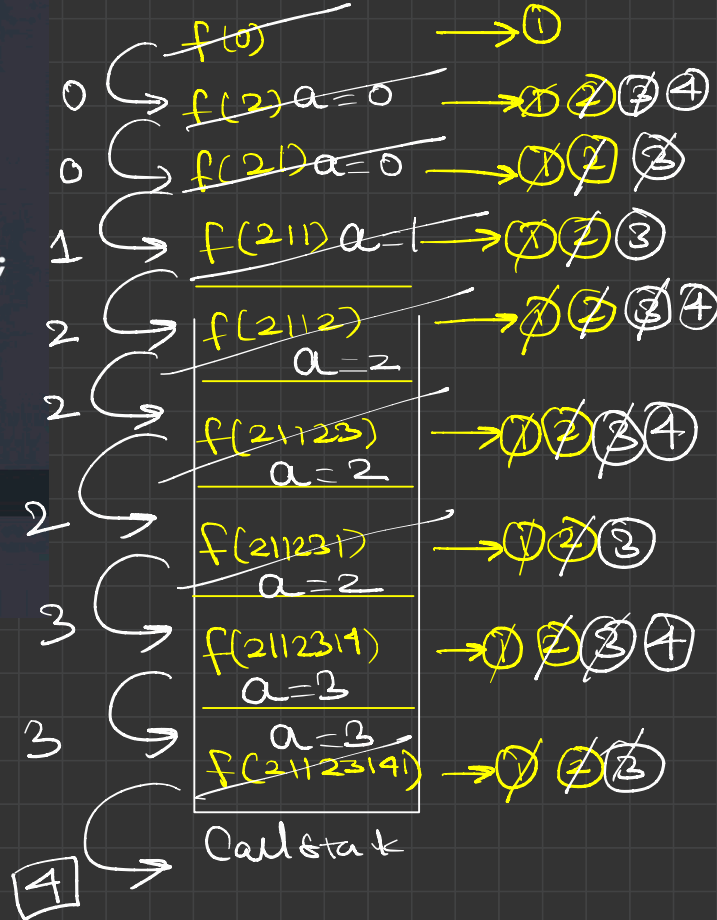
```
}
```

```
static int count1(int n) {
    //Write code here
    ① if (n == 0) {
        return 0;
    }

    ② int a = count1(n / 10);

    ③ if (n % 10 == 1) {
        return a + 1;
    } else {
    ④ return a;
    }
}
```

$N = 21234$



```

static int count1(int n) {
    //Write code here
    ① if (n == 0) {
        return 0;
    }
    ② int a = count1(n / 10);
    ③ if (n % 10 == 1) {
        return a + 1;
    } else {
    ④ return a;
    }
}

```

