

## C-JOS → Recursion in C - Problem

\* 2nd method of solving Recursion in easy and quick way.

Program:- Print sum of 5 natural numbers.

```
int sum(int x)
```

```
{  
    int s=0;
```

```
    if(x==1)
```

```
        return x;
```

```
    S = x + sum(x-1);
```

```
    return S;  
}
```

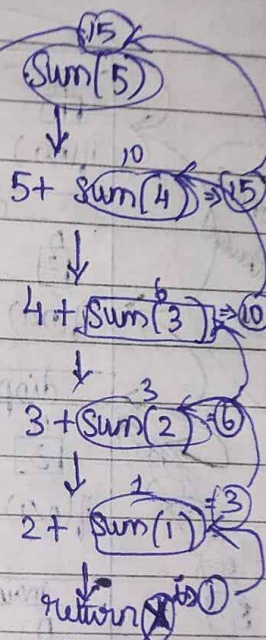
```
void main()
```

```
{  
    int a;
```

```
    a = sum(5);
```

```
    printf("%d", a);  
}
```

Easy Method



avoid this

Sum(5)

S  
0

if(x==1)

return x;

else

S = x + sum(x-1); S = x + sum(4);

return S;

Easy follow method to solve.

main()

a  
15

a = sum(5)

printf(a) → 15.

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** 2- RECURSION PROBLEM **/
4  int sum(int x)
5  {
6      int s=0;
7      if(x==1)
8          return x;
9      s=x+sum(x-1);
10     return s;
11 }
12 int main()
13 {
14     int a;
15     a=sum(5);
16     printf("Sum of 5 natural numbers is %d",a);
17     getch();
18 }
19 |
```

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Sum of 5 natural numbers is 15\_