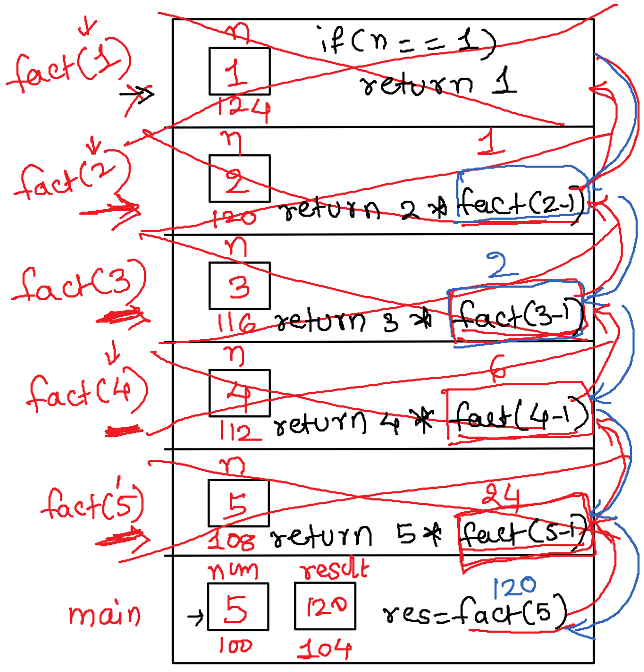
Wednesday, May 17, 2023 8:21 AM

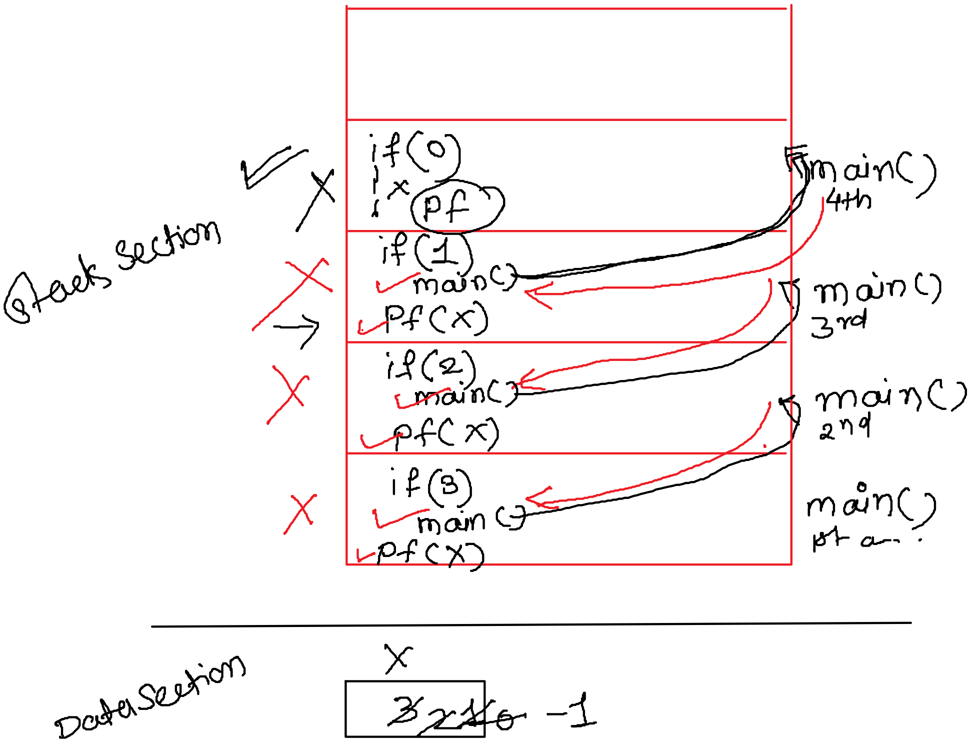
```
int factorial(int n)
{
    if(n==1)
        return 1;
    return n * factorial(n-1);
}


int main()
{
    int num,result;
    printf("Specify number \n");
    scanf("%d",&num);
    result = factorial(num);
    printf("Factorial of given number is %d\n",result);
}
```

120



```
int main()
{
   static int x=3;
   if(x--)
   {
      main();
   }
   printf("%4d",x);
}
```

-1 -1 -1 -1



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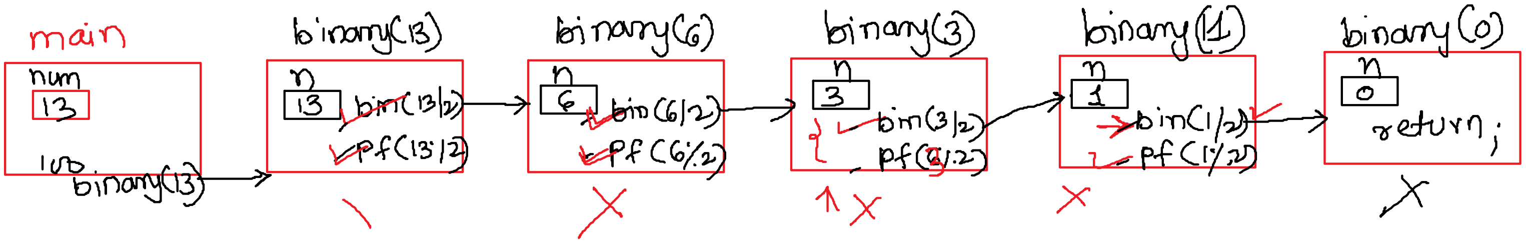
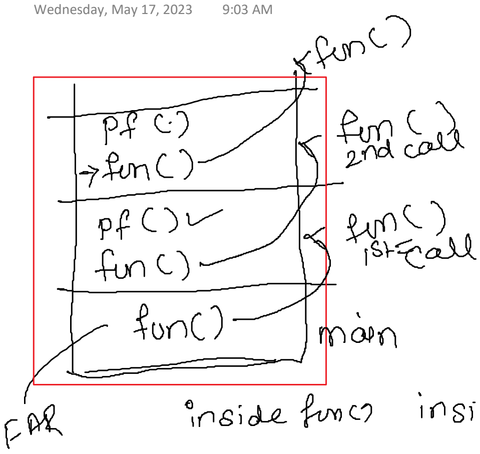
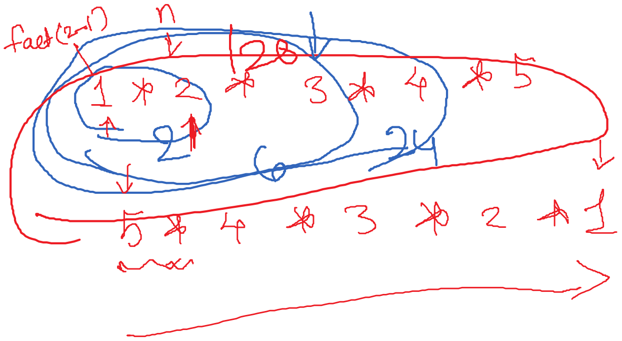


1101



inside fun() inside fun()



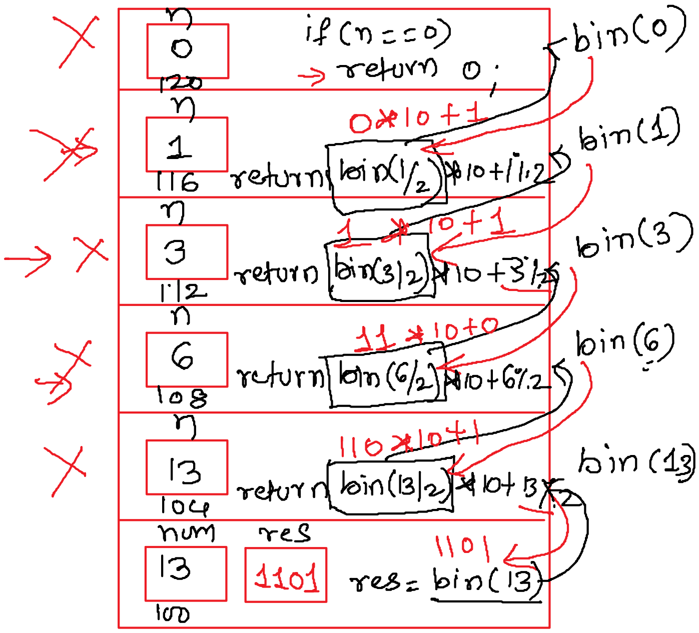
2 * ~~fact(2-1)~~ fact(1) = 2

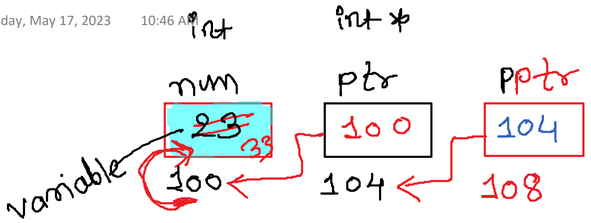
3 * ~~fact~~(3-1) / fact(2) 2 = 6

4 * fact(4-1) / fact(3) 6 = 24

5 * ~~fact~~(5-1) / fact(4) = 120 24

```
#include<stdio.h>
int binary(int n)
{
    if(n==0)
        return 0;
    return binary(n/2) * 10 + (n%2);
}
int main()
{
    int num,result;
    printf("Specify number \n");
    scanf("%d",&num);
    result = binary(num);
    printf("Binary of given number is %d \n",result);
}
```



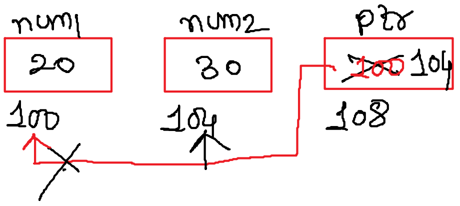


pptr = 104 — add of pointer to int

&pptr = 108

*pptr

*(104) = 100 — after 1 indirection level add of int



*ptr

*100

**pptr

*(104)

*(100)

23

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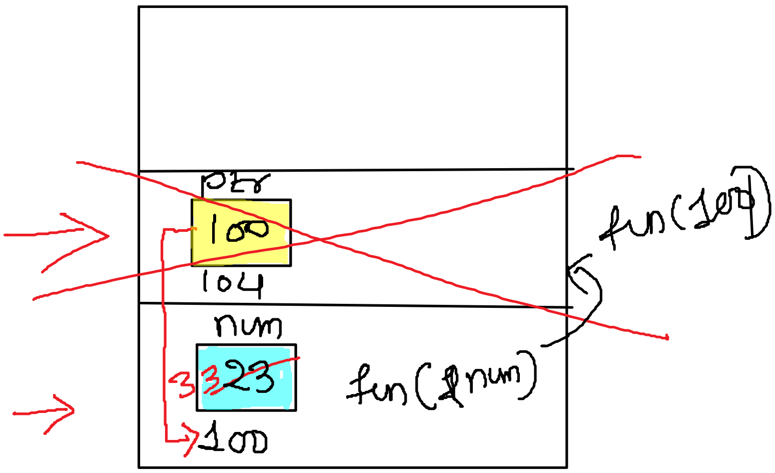
```c
int main()
{
    int num = 23;
    printf("num =%d \n",num);
    fun(&num);
}
void fun(int *ptr)
{
    *ptr = *ptr + 10;
}
```

*(100)

23 + 10

*ptr = 33


ptr
100
104
num
33 ~~23~~
100
fun(&num)
fun(100)