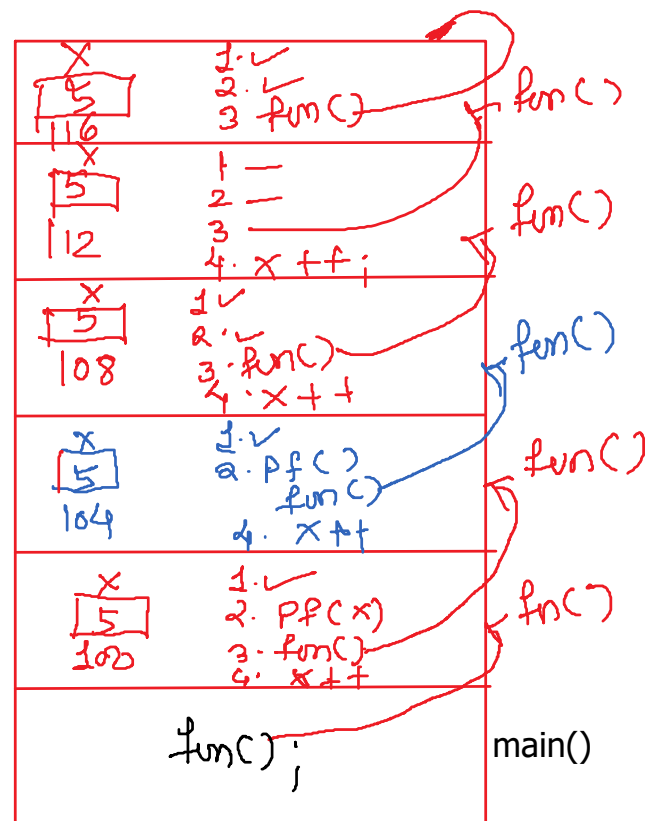
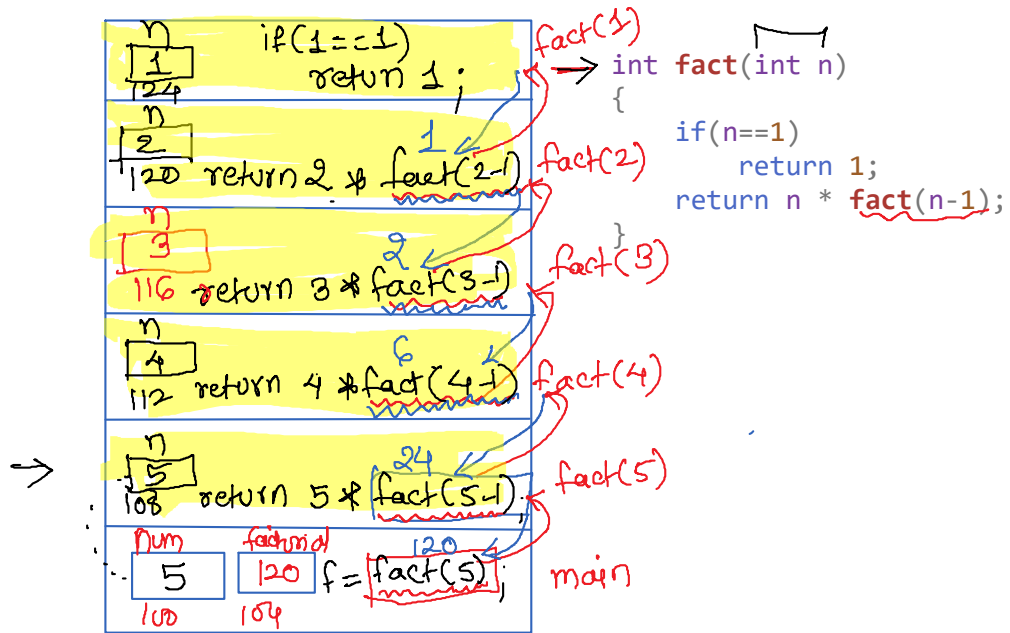
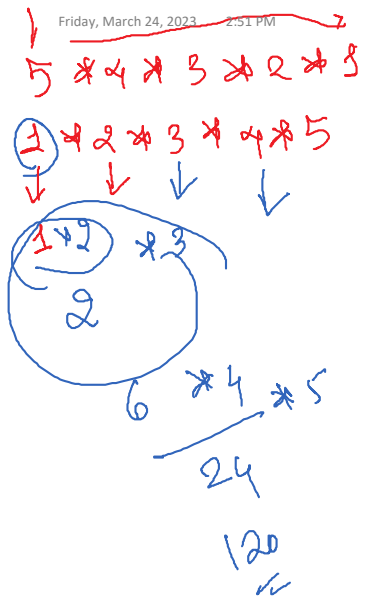


```

void fun(void)
{
    int x=5;
    printf("x=%d\n",x);
    fun();
    x++;
}

```





fun.x 3 ~~2~~ ~~1~~ ~~0~~

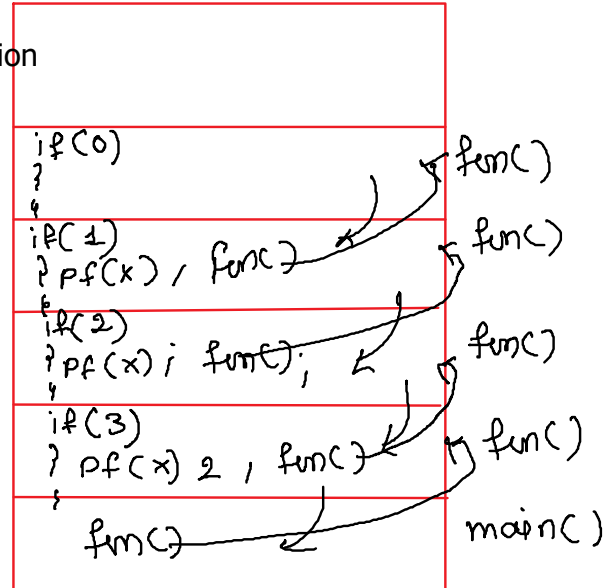
Data section

Heap section

```
void fun(void)
{
    static int x=3;
    if(x-->0)
    {
        printf("x=%d\n",x);
        fun();
    }
}
```

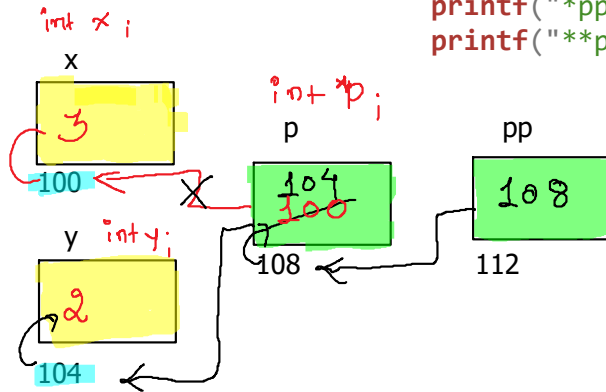
2 1 0

Stack section



```
printf("pp=%u \n",pp); // 108
printf("&pp=%u \n",&pp); // 112
printf("*pp=%u \n",*pp); // 108 = 104 address
printf("**pp=%d \n",**pp); //
```

address — unsigned int



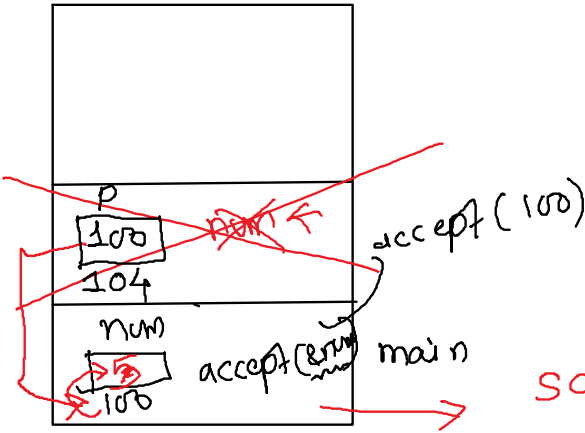
$$\begin{pmatrix} * & (pp) \\ & 108 \\ \hline & 104 \end{pmatrix}$$

100
99
98
97
96
95
94
93
...

```
p=100
&p = 108
*p === *100 === 3
```

```
p = 104
&p = 108
*p = 2
*104 = 2
```

$p = 100$
* $p = \text{garbage}$
& $p = 104$



$\text{scanf}("%d", \&\text{num})$ 100.