

$n=5$

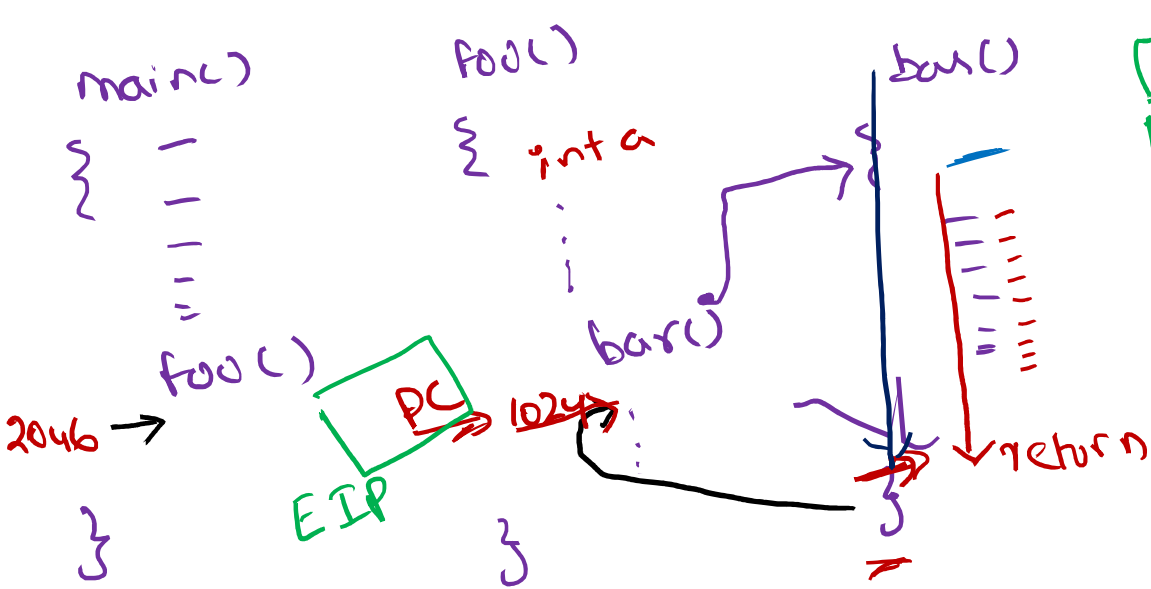
```
fact(n) ✓  
{ if (n==1)  
  return 1;  
  return n * fact(n-1);  
  5 * fact(4)  
}
```

$n=5$

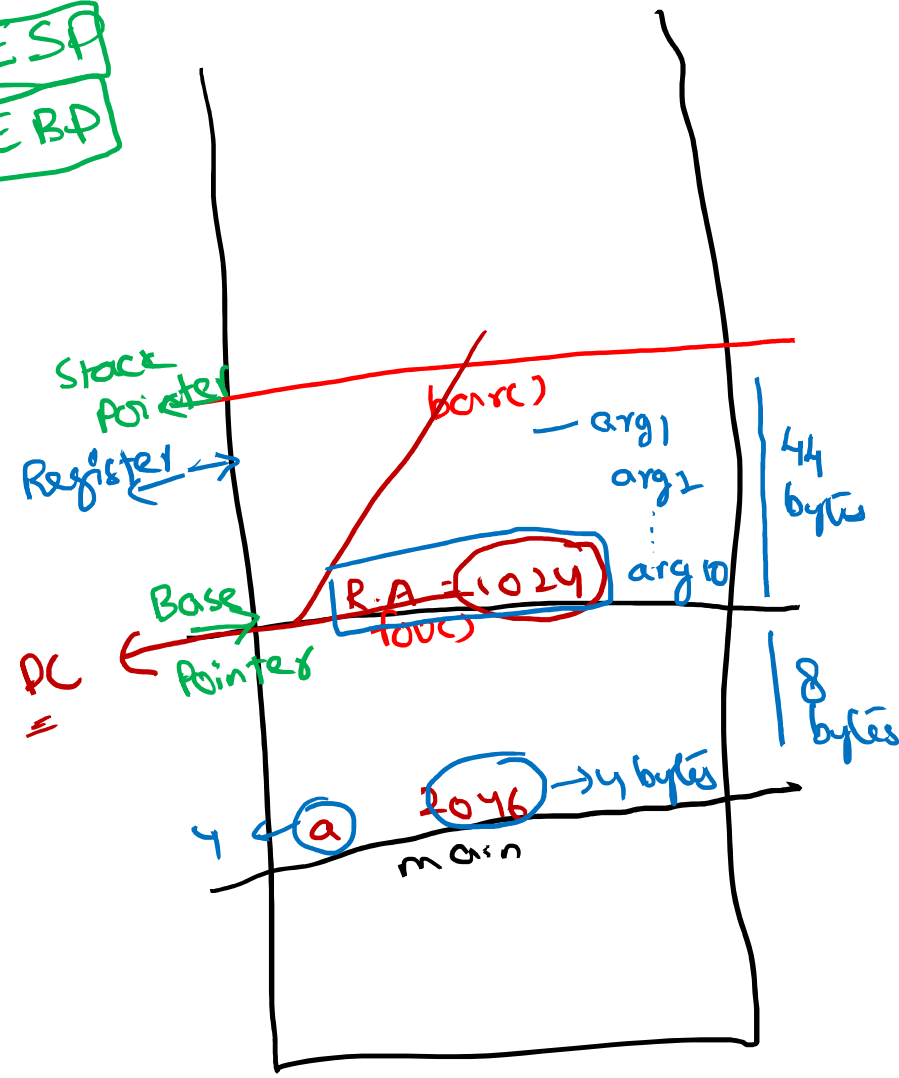
$4 * \text{fact}(3)$ $3 * \text{fact}(2)$

$2 * \text{fact}(1)$

$\rightarrow 1 * \text{fact}(0)$

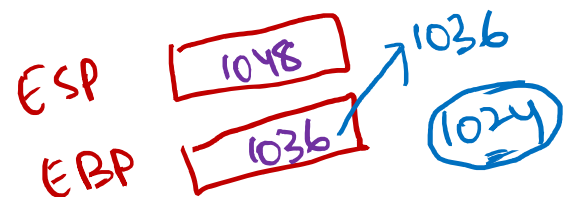


ESP
EBP



LIFO ⇒ stack

1. local variables
2. Return address
3. arguments (> 2) return value
4. Base pointer (old / previous record)



ESP = EBP

1036

1024

