

```
Int main(){
    Int base = 5, index = 4;
```

```
    Int res = power(base, index);
```

5 4
↑ 625

Return 0;

}

```
Int power(int base, int index)
{
    If (index == 0)
        Return 1;
    Return base * power(base, index-1);
}
```

5 4 ↑
5 4-1
5 * 125

```
Int power(int base, int index)
{
    If (index == 0)
        Return 1;
    Return base * power(base, index-1);
}
```

5 * 25

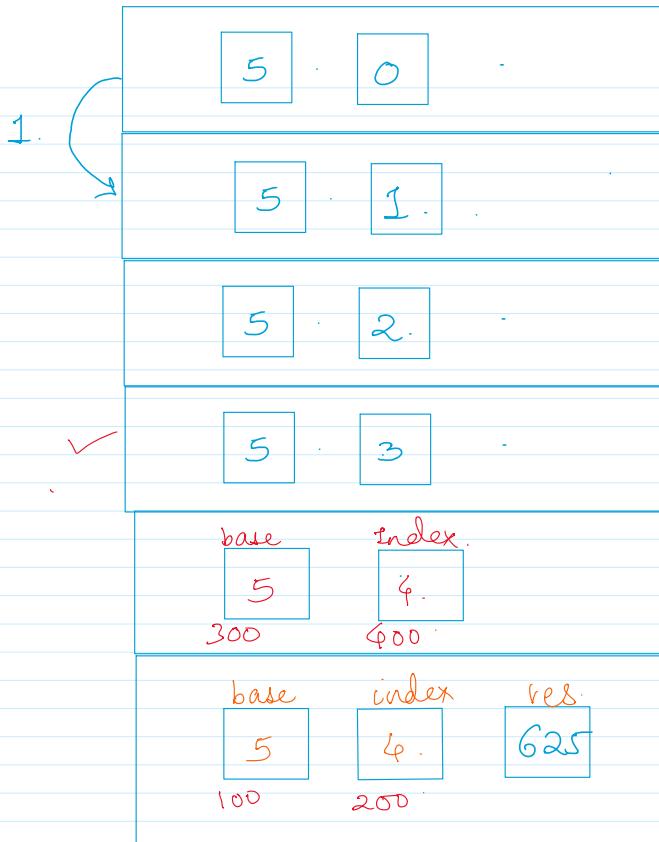
```
Int power(int base, int index)
{
    If (index == 0)
        Return 1;
    Return base * power(base, index-1);
}
```

5 * 5 ↑

```
Int power(int base, int index)
{
    If (index == 0)
        Return 1;
    Return base * power(base, index-1);
}
```

5 * 1

```
Int power(int base, int index)
{
    If (index == 0)
        Return 1;
    Return base * power(base, index-1);
}
```



Power()

main()