



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

```
Int res = power(base, index);  
Return 0;  
}
```

Handwritten annotations: "5 4" above the closing brace, and "625" with an arrow pointing to the return value.

```

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

```

```

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

```

Handwritten annotations: Red arrows point to the recursive call and the base case. Red numbers 5 and 3 are written above the function signature. Red numbers 3, 2, 1, 0 are written next to the recursive call. Blue numbers 5, 25 are written below the recursive call. A blue arrow points from 5 to 25.

```

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

```

```

Int power(int base, int index)
{
    if (index == 0)
        return 1;
    return base * power(base, index - 1);
}

```

```

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

```