

```
> make -s
> ./main
Some calculations
X: 2
Y: 30
Recurrision Result: 1073741824
Iterative Result: 1073741824
```

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// Demo at 4:49pm

#include <iostream>

using namespace std;

```
int pow_recurr(int x, int y) {
    if (y == 0)
        return 1;
    else if (y == 1)
        return x;
    else
        return x * pow_recurr(x, y - 1);
}
```

```
int pow_iter(int x, int y) {
    int n = 1;
    for (int i = 1; i <= y; ++i)
        n *= x;
    return n;
}
```

```
int main() {
    int x, y;
    cout << "Some calculations" << endl;
```

```
cout << "X: ";  
cin >> x;  
cout << "Y: ";  
cin >> y;  
cout << "Recursion Result: " << pow_recurr(x, y) << endl;  
cout << "Iterative Result: " << pow_iter(x, y) << endl;  
return 0;  
}
```