

Fill an array with numbers

1,3,7,15,31...
2,4,8,16,32...



```
int b=1;
for(i=0;i<length;i++)
{
    arr[i]=b;
    b=(b+1)*2-1;//3->4->8->7
}
```

```
void doubleArr(int arr[], int length) { // needs to print 1, 3, 7, 15, 31 = 1, 1 + 2
(3), + 4 (7), + 8 (15), + 16 (31)
    int b = 1;
    for (int i = 0; i < length; i++) {
        arr[i] = b;
        b = (b + 1) * 2 - 1; // instead of exponent function
    }
}
```

```
void doubleArr(int arr[], int length) { // needs to print 1, 3, 7, 15, 31 = 1, 1 + 2
(3), + 4 (7), + 8 (15), + 16 (31)
    for (int i = 0; i < length; i++) {
        arr[i] = pow(2, i + 1) - 1;
    }
}
```

```
arr[0]=1;
for(i=1;i<length;i++)
{
    arr[i]=...arr[i-1]...;
}
```

```
void doubleArr(int arr[], int length) { // needs to print 1, 3, 7,
15, 31 = 1, 1 + 2 (3), + 4 (7), + 8 (15), + 16 (31)
    arr[0] = 1;
    for (int i = 1; i < length; i++) {
        arr[i] = (arr[i-1] + 1)* 2 - 1;
    }
}
```