Russian Peasant Multiplication

- To multiply two numbers A and B
- Iteratively divide A by two (taking the floor if it's odd) and multiply B by 2 until A = 1
- Example: 22 x 12 = 264
 - 22 x 12
 11 x 24
 5 x 48
 2 x 96
 1 x 192

- Add all of the "B" values for which the corresponding "A" values were odd.
- Example:

22	Х	12
11	Χ	24
5	Χ	48
2	Х	96
1	X	192

24 + 48 + 192 = 264

Why is works? $(2k+1)^{n} = k^{*}(2n) + n$