**50. Pow(x, n)**

Medium

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Implement [pow(x, n)](http://www.cplusplus.com/reference/valarray/pow/), which calculates x raised to the power n (i.e., xn).

**Example 1:**

**Input:** x = 2.00000, n = 10

**Output:** 1024.00000

**Example 2:**

**Input:** x = 2.10000, n = 3

**Output:** 9.26100

**Example 3:**

**Input:** x = 2.00000, n = -2

**Output:** 0.25000

**Explanation:** 2-2 = 1/22 = 1/4 = 0.25

class Solution

{

public double myPow(double x, int n)

{

if(n<0)

x=1/x;

return power(x,n);

}

public double power(double x, int n)

{

if(n==0)

return 1;

if(n<0)

{

x=1/x;

}

n=Math.abs(n);

if(n%2==0)

return power(x\*x,n/2);

else

return x\*power(x,n-1);

}

}

Above code giving wrong answer

class Solution

{

public double myPow(double x, int n)

{

if(n==0)

return 1D;

double half=myPow(x, n/2);

return n%2==0?half\*half:n>0?x\*half\*half:(1/x)\*half\*half;

}

}

