import java.util.\*;

import java.io.\*;

//Write your code here

class Calculator

{

int power(int n,int p) throws Exception

{

int pow;

pow=(int)Math.pow(n,p);

if(n<0 || p<0 )

{

throw new IllegalArgumentException("n and p should be non-negative");

}

return pow;

}

}

class Solution{

public static void main(String []argh)

{

Scanner in = new Scanner(System.in);

int T=in.nextInt();

while(T-->0)

{

int n = in.nextInt();

int p = in.nextInt();

Calculator myCalculator = new Calculator();

try

{

int ans=myCalculator.power(n,p);

System.out.println(ans);

}

catch(Exception e)

{

System.out.println(e.getMessage());

}

}

}

}