Compound Interest

Write a program to find the compund interest for given principal amount P , time T(in years), compounds N times in a year at rate R. Calculate floor of future value of given principal amount.

Input:
First line contains an integer, the number of test cases 'T'. Each test case should contain three values P, T, N, R.

Output:
Print the future value for given principal after calculating Compund Interest.
Note: Print only floor of the future value. For example, if future value is 134.891, then output should be 134.

Constraints:
1<=T<=100
1<=P<=1000
1<=T<=20
1<=N<=4
1<=R<=20

Example:
Input:
1
1000
2
2
10

Output:
1215 //instead of 1215.51