E: Iron Supplementation

Time Limit: 1 second

Nick is deficient in iron, and his doctor has prescribed an iron supplementation regimen for him. Specifically, Nick has a prescription to ingest m milligrams of iron every morning for d days. Due to how iron is processed in the body, every night, p percent of the iron stored in the body disappears. Nick is so deficient in iron that he starts out with zero milligrams of iron stored.

Compute the number of milligrams of iron Nick has stored after the night of the d^{th} day.

Input

The first line of input contains a single integer T ($1 \leq T \leq 50$), representing the number of test cases.

The descriptions of T test cases follow. Each test case consists of a single line containing three integers, m, d, and p ($1 \leq m \leq 50$, $1 \leq d \leq 50$, $1 \leq p \leq 99$).

Output

For each test case, output the number of milligrams of iron stored after the night of the d^{th} day. Your answer will be considered correct if it has absolute or relative error at most 10^{-3}.

Sample Input 1	Sample Output 1
2 10 2 10 24 39 67	17.1 11.82089552238806

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