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Coding Arena

<C*deVita/>
the TCS Coding Contest

A   B   C   D   E   F   G   H

Problem : Between Devil and Deep Sea

Time Left

00   04   00
hr   min   sec

Rules & Regulations

A band of pirates have made loot. By their misfortune though, instant Karma is delivered. While they are travelling a treacherous route in the high and the deep seas they are also haunted by a devil, perhaps a spirit who suffered at their hands previously. The pirates now have to make tricky decisions. They run forward to save themselves from the Devil, but the deep seas force them backwards. There is a danger of falling in a whirlpool if they move forward rashly and there is a danger of being caught by the Devil if they move too much back. But move they must.

First they recede backwards B meters and then advance forward F meters, in a straight line. They cover 1 meter in T units of time. This backward and forward movement is performed repeatedly by the Pirates because they have panicked.

Your task is to find out if they will perish at the hands of the Devil or they will get sucked into the whirlpool of the Deep Sea and in how much time. It is also possible that by good fortune they might survive. Write a program to calculate the outcome

Input Format:

First line contains total number of test cases, denoted by N
Next N lines, contain a tuple containing 5 values delimited by space
F B T FD BD, where

1. **F** denotes forward displacement in meters
2. **B** denotes backward displacement in meters
3. **T** denotes time taken to cover 1 meter
4. **FD** denotes distance from Pirates' starting position and the whirlpool in forward direction
5. **BD** denotes distance from Pirates' starting position and the Devil in backward direction

Output Format:

For each test case, print time taken by the Pirates to be caught by the devil or for them to fall into the whirlpool. Print F if they fall in the whirlpool ahead of them and B if they get caught by the devil behind them. Both the outputs must be delimited by whitespace

OR

Print Thank God if the Pirates manage to survive

Constraints:

First move will always be in backward direction

1 <= N <= 100

forward movement > 0

backward movement > 0

time > 0

distance from the whirlpool ahead of them (FD) > 0

distance from the devil behind them (BD) > 0

All input values must be integer only

Sample Input and Output

SNo.	Input	Output
1	9 6 8 2 20 18 6 8 2 20 7 10 8 2 20 7 10 8 2 19 10 10 8 2 18 10	156 B 14 B 14 B 358 F 324 F

12 12 2 15 20	Thank God
7 7 2 10 10	Thank God
7 7 2 6 6	12 B
7 7 2 7 7	14 B

Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

Note:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

Note:

For C and C++, return type of main() function should be int.

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Submit Answer

☐ I , **CHANDRAMANI ADIL** confirm that the answer submitted is my own.

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