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Home | Contests | Problems | Forum ZOJ Problem Set - 3593 One Person Game Information Time Limit: 2 Seconds Memory Limit: 65536 KB There is an interesting and simple one person game. Suppose there is a number axis under your feet. You are at point A at first and your aim is point B. There are 6 kinds of operations you can perform in one step. That is to go left or right by a, b and c, here c always equals to a+b. Runs You must arrive B as soon as possible. Please calculate the minimum number of steps. Ranklist There are multiple test cases. The first line of input is an integer $T(0 < T \le 1000)$ indicates the number of test cases. Then T test cases follow. Each test case is represented by a line containing four integers 4 integers A, B, A and A, separated by spaces. (- $2^{31} \le A$, $B < 2^{31}$, A) or A, A by A and A integers A, A, A and A is a function of the first case A. For each test case, output the minimum number of steps. If it's impossible to reach point B, output "-1" instead. Sample Input Sample Output

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Contest: The 12th Zhejiang University Programming Contest
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