Problem H. Laser Alarm

Input file:	`standard input`
Output file:	`standard output`
Memory limit:	512 megabytes

The museum in Byteland has plenty of jewels on display, secured by n laser alarms. Each laser alarm can be considered as a segment in the 3D space. In this task, your job is to test the quality of the laser alarm system. You need to find a plane such that it touches the most laser alarms. Note that if the plane touches the endpoint of a segment, it should also be counted.

Input

The first line contains a single integer T ($1 \leq T \leq 10$), the number of test cases. For each test case:

The first line contains a single integer n ($1 \leq n \leq 50$), denoting the number of laser alarms.

Each of the following n lines contains six integers x_i, y_i, z_i, x'_i, y'_i and z'_i ($1 \leq x_i, y_i, z_i, x'_i, y'_i, z'_i \leq 100$), describing a segment that connects (x_i, y_i, z_i) and (x'_i, y'_i, z'_i). It is guaranteed that the two endpoints of each segment do not coincide.

Output

For each test case, output a single line containing an integer, denoting the maximum possible number of laser alarms that can be touched.

Example

standard input	standard output
1 4 1 1 1 1 1 2 1 1 10 1 1 11 1 10 1 1 10 2 10 1 1 10 1 2	3