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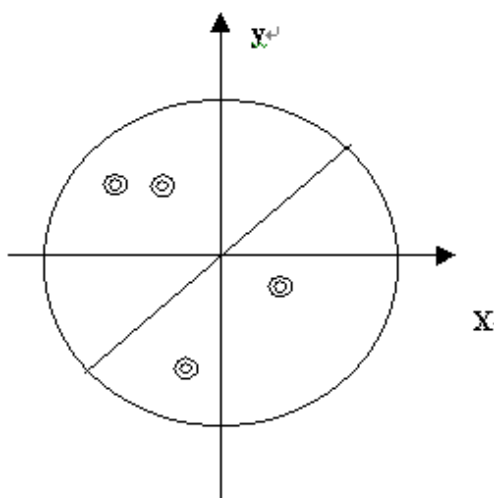
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10167 - Birthday Cake

Time limit: 3.000 seconds



There are $2N$ (N is a integer, $1 \leq N \leq 50$) cherries on the cake. Mother wants to cut the cake into two halves with a knife (of course a beeline). The twins would like to be treated fairly, that means, the shape of the two halves must be the same (that means the beeline must go through the center of the cake), and each half must have N cherrie(s). Can you help her?

Note: the coordinate of a cherry (x, y) are two integers. You must give the line as form two integers A, B (stands for $Ax + By = 0$), each number in the range $[-500, 500]$. Cherries are not allowed lying on the beeline. For each dataset there is at least one solution.

Input

