```
// Show each value of i, j and k for each line executed
     // in the while loop (lines:11, 13, 15, 16, 18) and the
     // final values of i, j and k for when a = -1, b = 1 and
     // a = 1, and b = -1 and finally when a = 0 and b = 0.
5
     #include <stdio.h>
6
     int main(void) {
         int i = 1;
8
         int j = 0;
9
         int k = -1;
10
         int a = 1;
11
         int b = -1;
12
         while (i > j) {
             i = i + a - 2 * j;
13
             if (j >= k) {
14
15
                 i = i + 2;
16
                 k = k - b + 2 * j;
17
             }
18
             j++;
19
         }
200
     }
```

When a = -1 and b = 1

i	ј 0	k	a	b
1	0	-1	-1	1
0	0	-1	-1	1
0	0	-1	-1	1

When a = 1 and b = -1

i	j	k	a	b
1	ј 0	-1	-1	1
$\begin{bmatrix} 1 \\ 2 \\ 2 \end{bmatrix}$	0	-1	-1	1
2	0	-1	-1	1

When a = 1 and b = -1

i	ј 0	k	a	b
1	0	-1	-1	1
1	0	-1	-1	1
1	0	-1	-1	1
			l	