BINARY SEARCH FROM ONE DIMENSION TO TWO DIMENSION

search key=3 in the array

4	7	12	15	19	25	30	35

Algorithm 1 Binary Search algorithm

1: **procedure** BINSEARCH($array, lo$, hi, key)
2:      $r \leftarrow a \bmod b$
3:      **while** $r \neq 0$ **do**   ▷ We have the answer if r is 0
4:          $a \leftarrow b$
5:          $b \leftarrow r$
6:          $r \leftarrow a \bmod b$
7:      **end while**
8:      **return** b ▷ The gcd is b
9: **end procedure**