

BINARY SEARCH FROM ONE DIMENSION TO TWO DIMENSION

search key=3 in the array

4	7	12	15	19	25	30	35
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Algorithm 1 Euclids algorithm

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1: procedure EUCLID( $a, b$ )                                ▷ The g.c.d. of a and b
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

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