
Algorithm 3.1.8 find the largest even list entry

```
1: procedure LARGEST EVEN( $a_1, a_2, \dots, a_n$ : list of integers)
2:    $index \leftarrow 0$ 
3:   for  $i = 1$  to  $n$  do
4:     if not  $a_i \pmod{2}$  then
5:       if  $(index = 0) \vee (a_i > a_{index})$  then
6:          $index \leftarrow i$ 
7:       end if
8:     end if
9:   end for
10:  return  $index$   $\triangleright$  returns 0 if every integer is odd
11: end procedure
```
