Maximum size rectangle binary sub-matrix with all 1s

Given a binary matrix, find the maximum size rectangle binary-sub-matrix with all 1's.

Example:

Input:
0 1 1 0
1 1 1 1
1 1 1 1
1 1 0 0
Output :
8
Explanation :
The largest rectangle with only 1's is from
(1, 0) to (2, 3) which is
1 1 1 1
1 1 1 1

Input:
0 1 1
1 1 1
0 1 1
Output:
6
Explanation :
The largest rectangle with only 1's is from
(0, 1) to (2, 2) which is
1 1
1 1
1 1