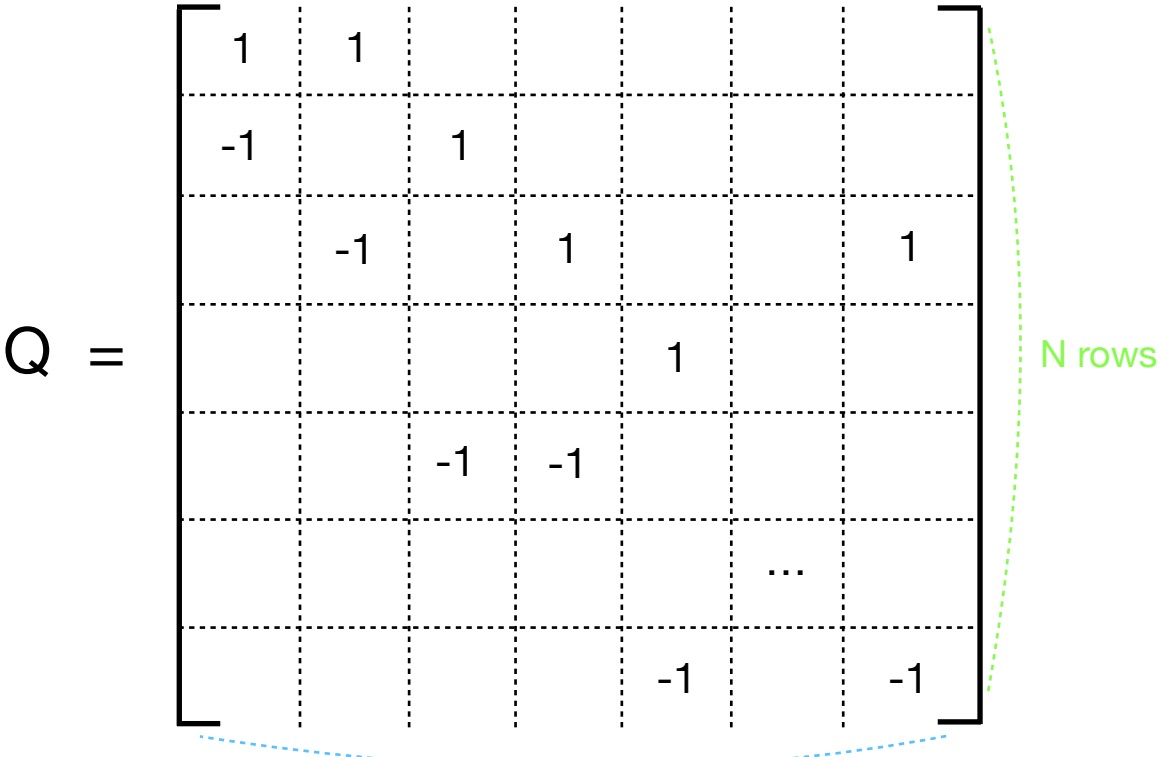
Q =
1 1
-1 1
-1 1 1
1
-1 -1
...
-1 -1
N rows
M columns
every column has two non-zero values: 1 and -1.