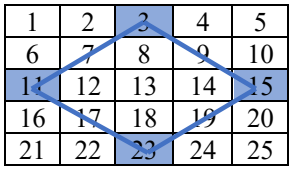
Diamond Sequence

Consider a square NxN matrix for odd N>2 whose elements are initialized with values 1-N^2 as follows.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

Find the diamond whose corners are in the middle row of the left and right columns and the middle column of the top and bottom rows.



What is the sequence of values that traverse the diamond clockwise starting in the top row?

Write a function
`vector<int> diamondsequence(vector<vector<int>> &m)`
where
`m` is the NxN matrix with odd N>2
and returns the diamond sequence if `m` is an NxN matrix with odd N>2,
otherwise returns the empty sequence.

File you must submit: `soln_func.cc`

Examples:

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

Returns: 3 9 15 19 23 17 11 7

1	2	3
4	5	6
7	8	9

Returns: 2 6 8 4

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Returns: empty sequence
Explanation: N is even.

1	2	3	4
5	6	7	8
9	10	11	12

Returns: empty sequence
Explanation: m is not a square.