```
Find the (min / max) value for each continuous subArray of size k:
61
62
    //1D-Array
63
64
    vector<int> get_window_1d(const vector<int> &a, int k)
65
66
        const int n = a.size();
        vector<int> b(n - k + 1);
67
68
        deque<int> mono;
        for (int i = 0; i < n; ++i)
69
70
             //change this condition to ≥ for (min / max)
71
72
            while (!mono.empty() & a[mono.back()] ≤ a[i])
73
                 mono.pop_back();
74
            mono.push_back(i);
75
76
77
            if (mono.front() \le i - k) mono.pop_front();
78
            if (i + 1 \ge k) b[i + 1 - k] = a[mono.front()];
79
80
         }
81
        return b;
82
    }
83
84
    //2D-matrix Find the (min / max) value for each continuous subMatrix of size k×l:
    vector<vector<int>>> get_window_2d(const vector<vector<int>>> &a, int k, int l)
85
86
    {
87
        //change the condition in the 1d function to change it here
        const int n = a.size(), m = a[0].size();
88
        vector<vector<int>>> b(m - l + 1, vector<int>(n));
89
90
        for (int i = 0; i < n; ++i)
91
92
             const auto tmp = get_window_1d(a[i], l);
             for (int j = 0; j < m - l + 1; ++j)
93
94
95
                 b[j][i] = tmp[j];
96
             }
97
         }
        vector<vector<int>> c(n - k + 1, vector<int>(m - l + 1));
98
        for (int j = 0; j < m - l + 1; ++j)</pre>
99
100
            const auto tmp = get_window_1d(b[j], k);
101
            for (int i = 0; i < n - k + 1; ++i)
102
103
104
                 c[i][j] = tmp[i];
105
         }
106
107
        return c;
108 }
```