## Hackathon Contest 2021 – Offline Programming Part FPT Education 2<sup>nd</sup> Round on March 13<sup>th</sup>, 2021



### **Problem G Greedy Eat**

Time Limit: 3 seconds Memory Limit: 512 Megabytes



Flgure H. 1. Mr. Greedy

#### **Problem description**

Mr. Greedy is a potential sumo who wants to gain weight, so he needs to eat foods which have as much energy as possible. The dishes with calorie supply weights are arranged on a square matrix size M x M. He is allowed to select a food area inside matrix M x M which is must form a continuous square of size N x N (N  $\leq$  M).

Please help Mr. Greedy to select the best squared food are which has the most calorie energy. The input data using standard input stream (stdin).

#### Input

Line 1: M N (M  $\leq$ =1000; 1  $\leq$ = M)

Line j: each line has M values Cjk in integer value which are calorie values, where j and k start from 1 to M, and Cjk  $\leq$  1000

#### Output

The output data is the maximum total value of energy (in calorie) which Mr. Greedy can receive.

### Example:

Input	Output
4 3	87
1911	
6999	
4999	
5 9 9 15	



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Explain: M=4, N=3, so the maximum selected food area in square is 3 x 3

-	Test case 1: input data			data	The	best	foo	d are	ea which has the most energy size 3x	
T	4	3								
	1	9	1	1						
	6	9	9	9			9	9	9	
	4	9	9	9			9	9	9	
	5	9	9	15			9	9	15	