

Sum of elements in a matrix

Given a non null integer matrix, calculate the sum of its elements.

Input: First line contains T , the number of test cases. First line of each test contains 2 integers N,M and N lines follow which contain M spaced integers.

Output: Single line for each test case containing the sum

Constraints: $1 \leq N, M \leq 10$, elements of matrix $-1000 \leq \text{matrix} \leq 1000$

Example:

Input:

1

2 3

1 0 0

8 -9 -1

Output

-1