

## Diagonal sum

Given a square matrix of size  $M \times M$ . Your task is to calculate the sum of its diagonals.

### Input:

The first line of input contains an integer  $T$  denoting the number of test cases. Then  $T$  test cases follow. First line of each test case contains a single integer  $M$  denoting the size of the square matrix. The next line contains  $M \times M$  space separated values of the matrix  $A$ .

### Output:

For each test case in a new line print the sum of diagonals of the matrix.

### Constraints:

$$1 \leq T \leq 20$$

$$2 \leq N \leq 10$$

$$1 \leq A[i] \leq 20$$

### Example:

#### Input:

```
1
3
1 1 1 1 1 1 1 1 1
```

#### Output:

```
6
```