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Tom and his game   Problem Code: **CWHIZZ05**

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Problem description.

In a game points are awarded as the main character Tom eats candy as he journeys across location **A(0,0,0)** to location **B (N,N,N)** . Each candy has different points allotted to it. Now Queries will be given of the form :

```
- UPDATE x y z w
Which updates the value of candy at location (x,y,z) to w.
- QUERY x₁ y₁ z₁ x₂ y₂ z₂
Calculates sum of values of candy items between the co-ordinates given
.
```

Input

```
The first line contains an integer T, the number of test-cases. T
testcases follow.
For each test case, the first line will contain two integers N and M
separated by a single
space.
N defines the N * N * N matrix.
M defines the number of operations.
The next M lines will contain either.
1. UPDATE x y z W
2. QUERY x₁ y₁ z₁ x₂ y₂ z₂
```
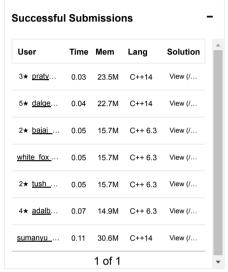
Output

Print the result for each QUERY.

Constraints

Should contain all the constraints on the input data that you may have. Format it like:

- **$1 \le T \le 50$**
- **$1 \le N \le 100$**
- **$1 \le M \le 1000$**
- **$1 \le x_1 \le x_2 \le N$**
- **$1 \le y_1 \le y_2 \le N$**
- **$1 \le z_1 \le z_2 \le N$**
- **$1 \le x,y,z \le N$**
- **$-10^9 \le W \le 10^9$**

Example

```
Input:
2
4 5
UPDATE 2 2 2 4
QUERY 1 1 1 3 3 3
UPDATE 1 1 1 23
QUERY 2 2 2 4 4 4
QUERY 1 1 1 3 3 3
2 4
UPDATE 2 2 2 1
QUERY 1 1 1 1 1 1
QUERY 1 1 1 2 2 2
QUERY 2 2 2 2 2 2

Output:
4
4
27
0
1
1
```

Author:	1★ kjsreddy123 (/users/kjsreddy123)
Tags:	kjsreddy123 (/tags/problems/kjsreddy123)
Date Added:	11-01-2018
Time Limit:	1 secs
Source Limit:	50000 Bytes
Languages:	ADA, ASM, BASH, BF, C, CAML, CLOJ, CLPS, COB, CPP 4.3.2, CPP 6.3, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, kotlin, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.5, RUBY, rust, SCALA, SCM chicken, SCM guile, SCM qobi, ST, swift, TCL, TEXT, WSPC

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