How does matching in cuda works?

1 4 2 3
2 1 2 1
3 4 2 1
1 1 1 1

Starting matrix

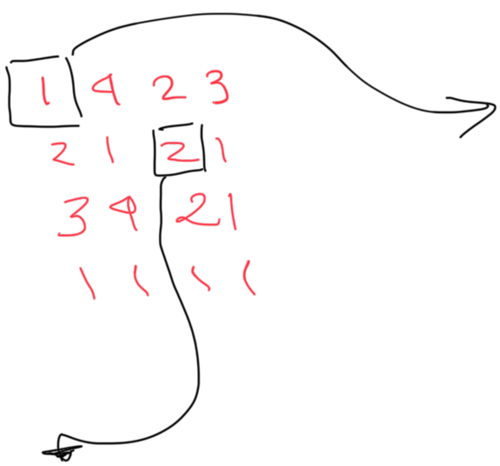
2 1
2 1

find matrix → the program also check it as

[1 2
1 2]

Works as:

· For every number in starting matrix we are going to check if find matrix appears as:



starting at (0,0) 1 we search [2 1 / 2 1] and [1 2 / 1 2] as:

$R_1 = 2$

$R_3 = 1$

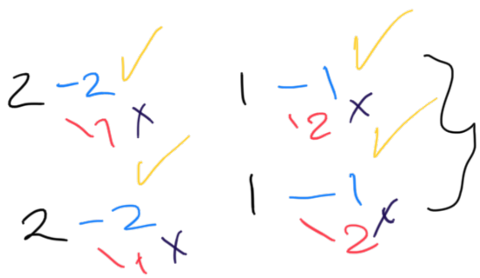
$Matched_1 = 2$
$compared_1 = 4$

$matched_3 = 1$
$compared_3 =$ [illegible]

% similarity$_1$ = 2/4 = 0.5

% similarity$_2$ = 1/4 = 0.[illegible]

starting (1,2): 2



R=4

$Matched_1 = 4$

% of similarity$_1$ [illegible]

Final % similarity = 0.5

Compared$_7$ = 4

R = 1

Matched$_3$ = 0

Compared$_3$ = 4

% similarity 3

R = 0

Final % = 1

Finally we get after checking every cell:

We get the max

R = 1