C-pro to implement matrix addition & substraction

Algorithm

1. Start
2. Input n & C
3. Repeat through step 3
   for $(i=0; i<r; i++)$
   for $(j=0; j<c; j++)$

   Input $a[i][j]$
4. Repeat through step 4
   for $(i=0; i<r; i++)$
   for $(j=0; j<c; j++)$

   Input $b[i][j]$
5. Repeat through step 5
   for $(i=0; i<r; i++)$
   5.1 for $(j=0; j<c; j++)$

   5.1 a) $m[i][j] = a[i][j] + b[i][j]$
   5.1 b) Print $m[i][j]$
   5.1 Print "\n"
6. Repeat through Step 6
   for $(i=0; i<r; i++)$
   6.1 for $(j=0; j<c; j++)$
   6.1 a) $m[i][j] = a[i][j] + b[i][j]$
   6.1 b) Print $m[i][j]$

   6.2 Print "\n"

7. Stop

Flowchart

```
                    ( Start )
                        |
                  / Input r & c /
false                   |
    -------- for(i=0; i<r; i++)
false              true |
    ----- for(j=0; j<c; j++)
                   true |
             / Input a[i][j] /
                        |
              for(i=0; i<r; i++)
false              true |
    ----- for(j=0; j<c; j++)
                   True |
             / Input b[i][j] /
                        |
false         for(i=0; i<r; i++)
    |              true |
false    ----- for(j=0; j<c; j++)
    |              true |
            | m[i][j] = a[i][j] |
            |    + b[i][j]      |
                        |
             / Print m[i][j] /
                        |
             / Print "\n" /
                        |
false         for(i=0; i<r; i++)
    |              true |
false    ----- for(j=0; j<c; j++)
    |              True |
            | m[i][j] = a[i][j] - |
            |     b[i][j]         |
                        |
             / Print m[i][j] /
                        |
             / Print "\n" /
                        |
                    ( Stop )
```