#include <stdio.h>

#include <stdlib.h>

int main()

{

int r, c;

printf("Enter the number of rows: ");

scanf("%d", &r);

printf("Enter the number of columns: ");

scanf("%d", &c);

int i, j;

int a[r][c], b[r][c], res[r][c];

printf("Enter the elements of first matrix:\n");

for (i = 0; i < r; i++)

{

for (j = 0; j < c; j++)

{

printf("[%d][%d]: ", i, j);

scanf("%d", &a[i][j]);

}

}

printf("Enter the elements of second matrix:\n");

for (i = 0; i < r; i++)

{

for (j = 0; j < c; j++)

{

printf("[%d][%d]: ", i, j);

scanf("%d", &b[i][j]);

}

}

for (i = 0; i < r; i++)

{

for (j = 0; j < c; j++)

{

res[i][j] = a[i][j] - b[i][j];

}

}

printf("The result matrix is:\n");

for (i = 0; i < r; i++)

{

for (j = 0; j < c; j++)

{

printf("%6d", res[i][j]);

}

printf("\n");

}

return 0;

}