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[■] MODERATE.C 1=[↑↓]

```
#include<stdio.h>
```

```
int main(void)
```

```
{
```

```
    int c, d, p, q, m, n, k, tot = 0;
```

```
    int fst[10][10], sec[10][10], mul[10][10];
```

```
    printf(" Please insert the number of rows and columns for first matrix \n ");
```

```
    scanf("%d%d", &m, &n);
```

```
    printf(" Insert your matrix elements : \n ");
```

```
    for (c = 0; c < m; c++)
```

```
        for (d = 0; d < n; d++)
```

```
            scanf("%d", &fst[c][d]);
```

```
    printf(" Please insert the number of rows and columns for second matrix \n ");
```

```
    scanf(" %d %d", &p, &q);
```

```
    if (n != p)
```

```
        printf(" Your given matrices cannot be multiplied with each other. \n ");
```

```
    else
```

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[■] MODERATE.C 1=[↑↓]

```
else
{
    printf(" Insert your elements for second matrix \n ");

    for (c = 0; c < p; c++)
        for (d = 0; d < q; d++)
            scanf("%d", &sec[c][d] );

    for (c = 0; c < m; c++) {
        for (d = 0; d < q; d++) {
            for (k = 0; k < p; k++) {
                tot = tot + fst[c][k] * sec[k][d];
            }
            mul[c][d] = tot;
            tot = 0;
        }
    }

    printf(" The result of matrix multiplication or product of the matrices is
    for (c = 0; c < m; c++) {
        for (d = 0; d < q; d++)
```

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[■] MODERATE.C 1=[↑↓]

```
    tot = 0;
  }
}

printf(" The result of matrix multiplication or product of the matrices is
for (c = 0; c < m; c++) {
    for (d = 0; d < q; d++)
        printf("%d \t", mul[c][d] );
    printf(" \n ");
}
return 0;
}
```

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C:\TURBOC3\BIN>TC

Please insert the number of rows and columns for first matrix

2 2

Insert your matrix elements :

1 2

5 3

Please insert the number of rows and columns for second matrix

2 2

Insert your elements for second matrix

2 3

4 1

The result of matrix multiplication or product of the matrices is:

10 5

22 18

Please insert the number of rows and columns for first matrix