

(29) Write a program to multiply two matrices.

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

```
#include <conio.h>
```

```
void main()
```

```
{
```

```
int a[10][10], b[10][10], c[10][10];
```

```
int i, j, k, l, m, n;
```

```
printf("Input the order of A matrix");
```

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

```
printf("Input the row of B matrix");
```

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

```
if (m == n)
```

```
{ printf("Matrix can be multiplied\n");
```

```
printf("Input the element of A matrix\n");
```

```
for (i=0; i<l; i++)
```

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

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

```
printf("Input the elements of B matrix");
```

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

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

```
{
```

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

```
}
```

```
for (i=0; i<l; i++)
```

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

```
{
```

```
c[i][j] = 0;
```

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

```
{
```

```
c[i][j] = c[i][j] + a[i][k] * b[k][j];
```

```
}
```

```
}
```

M	T	W	T	F	S	S
•	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	•	•	•

19-02-2011

Saturday
050-315 • Week 07
FEBRUARY

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Appointments Meetings

```

for( i=0; i<l; i++)
{
    for( j=0; j<m; j++)
    {
        printf( " %3d " , c[i][j] );
    }
    printf( " \n" );
}
else
    printf( " Matrix can not be multiplied" );
}
}

```

```

printf( " Deletion location" )
scanf( " %d" , &pos);
if( pos >= n+1)
    printf( " Deletion not possible" );
else
{

```

Sunday 20

```

for( c=pos-1; c<n-1; c++)
    x[c] = x[c+1];
for( c=0; c<n-1; c++)
    printf( " %d" , x[c] );
}

```

