

# Input File Data and Output Results Assignment 2

## Input File: in2h.txt

```
4 4
16 -32 1 17
25 8 12 9
-5 0 -16 -1
6 1 13 4
```

```
4 4
4 2 -1 2
11 44 13 1
25 -8 0 14
2 1 5 -6
```

```
3 4
3 4 -2 7
-1 0 -2 2
3 -4 5 3
```

```
4 5
3 5 -9 12 -10
-3 2 15 -4 0
1 0 -7 1 2
5 3 7 -2 15
```

## Output File: out.txt

MATRIX A PLUS MATRIX B:

```
16 -32 1 17 4 2 -1 2 20 -30 0 19
25 8 12 9 + 11 44 13 1 = 36 52 25 10
-5 0 -16 -1 25 -8 0 14 20 -8 -16 13
6 1 13 4 2 1 5 -6 8 2 18 -2
```

MATRIX A MINUS MATRIX B:

```
16 -32 1 17 4 2 -1 2 12 -34 2 15
25 8 12 9 - 11 44 13 1 = 14 -36 -1 8
-5 0 -16 -1 25 -8 0 14 -30 8 -16 -15
6 1 13 4 2 1 5 -6 4 0 8 10
```

MATRIX C TIMES MATRIX D:

```
3 4 -2 7 3 5 -9 12 -10 30 44 96 4 71
-1 0 -2 2 x -3 2 15 -4 0 = 5 1 37 -18 36
3 -4 5 3 1 0 -7 1 2 41 16 -101 51 25
5 3 7 -2 15
```

## Input File: in2i.txt

```
4 4
16 -32 1 17
25 8 12 9
-5 0 -16 -1
6 1 13 4
```

```
4 4
4 2 -1 2
11 44 13 1
25 -8 0 14
2 1 5 -6
```

```
4 5
3 4 -2 7 2
-1 0 -2 2 1
3 -4 5 3 3
-1 0 1 -2 -1
```

```
5 6
3 5 -9 12 -10 5
-3 2 15 -4 0 1
1 0 -7 1 2 4
5 3 7 -2 15 0
2 0 1 5 2 10
```

## Output File: out.txt

MATRIX A PLUS MATRIX B:

```
16 -32 1 17 4 2 -1 2 20 -30 0 19
25 8 12 9 + 11 44 13 1 = 36 52 25 10
-5 0 -16 -1 25 -8 0 14 20 -8 -16 13
6 1 13 4 2 1 5 -6 8 2 18 -2
```

MATRIX A MINUS MATRIX B:

```
16 -32 1 17 4 2 -1 2 12 -34 2 15
25 8 12 9 - 11 44 13 1 = 14 -36 -1 8
-5 0 -16 -1 25 -8 0 14 -30 8 -16 -15
6 1 13 4 2 1 5 -6 4 0 8 10
```

MATRIX C TIMES MATRIX D:

```
3 4 -2 7 2 3 5 -9 12 -10 5 34 44 98 14 75 31
-1 0 -2 2 1 x -3 2 15 -4 0 1 = 7 1 38 -13 38 -3
3 -4 5 3 3 1 0 -7 1 2 4 47 16 -98 66 31 61
-1 0 1 -2 -1 5 3 7 -2 15 0 -14 -11 -13 -12 -20 -11
2 0 1 5 2 10
```

### Input File: in2j.txt

```
3 3
16 -32 1
25 8 12
-5 0 -16
```

```
3 3
4 2 -1
11 44 13
25 -8 0
```

```
2 4
3 4 -2 1
-1 0 -2 4
```

```
4 2
3 5
-3 2
1 0
4 6
```

### Output File: out.txt

MATRIX A PLUS MATRIX B:

```
16 -32 1      4 2 -1      20 -30 0
25 8 12 + 11 44 13 = 36 52 25
-5 0 -16      25 -8 0      20 -8 -16
```

MATRIX A MINUS MATRIX B:

```
16 -32 1      4 2 -1      12 -34 2
25 8 12 - 11 44 13 = 14 -36 -1
-5 0 -16      25 -8 0      -30 8 -16
```

MATRIX C TIMES MATRIX D:

```
3 4 -2 1 x 3 5 = -1 29
-1 0 -2 4   -3 2   11 19
              1 0
              4 6
```

### Input File: in2k.txt

```
2 2
-20 -32
-12 -9
```

```
2 2
4 2
2 1
```

```
5 2
3 4
2 5
3 6
0 2
1 3
```

```
2 5
1 0 7 1 2
5 3 7 2 4
```

### Output File: out.txt

MATRIX A PLUS MATRIX B:

```
-20 -32 + 4 2 = -16 -30
-12 -9   2 1   -10 -8
```

MATRIX A MINUS MATRIX B:

```
-20 -32 - 4 2 = -24 -34
-12 -9   2 1   -14 -10
```

MATRIX C TIMES MATRIX D:

```
3 4 x 1 0 7 1 2 = 23 12 49 11 22
2 5   5 3 7 2 4   27 15 49 12 24
3 6               33 18 63 15 30
0 2               10 6 14 4 8
1 3               16 9 28 7 14
```

Input File: in21.txt

```
4      3
16 -32      1
25      8      12
-5      0      -16
6      1      13
```

```
4      3
4      2      -1
11     44     13
25     -8      0
2      1      5
```

```
4      5
3      4      -2      2731      7
-1      0      -2      2      1
3      -4      5      3      3
-1      0      1      -2      -1
```

```
5      6
3      5      -9      12      -10      5
-3      2      15      -4      0      1
1      0      -7      1      2      4
5      3      7      -2      15      0
2      0      1      5      2      10
```

MATRIX C TIMES MATRIX D:

3	4	-2	2731	7	3	5	-9	12	-10	5	13664	8216	19171	-5409	40945	81
-1	0	-2	2	1	x	-3	2	15	-4	0	7	1	38	-13	38	-3
3	-4	5	3	3	1	0	-7	1	2	4	47	16	-98	66	31	61
-1	0	1	-2	-1	5	3	7	-2	15	0	-14	-11	-13	-12	-20	-11
					2	0	1	5	2	10						

Output File: out.txt

MATRIX A PLUS MATRIX B:

16	-32	1		4	2	-1		20	-30	0
25	8	12	+	11	44	13	=	36	52	25
-5	0	-16		25	-8	0		20	-8	-16
6	1	13		2	1	5		8	2	18

MATRIX A MINUS MATRIX B:

16	-32	1		4	2	-1		12	-34	2
25	8	12	-	11	44	13	=	14	-36	-1
-5	0	-16		25	-8	0		-30	8	-16
6	1	13		2	1	5		4	0	8