Test Cases Program 9

Test Case 1:

int[][] mA = { {2,2}, {2,5} };  
   
 int[][] mB = { {2,3,6}, {5,5,5} };  
   
 int[][] mC = { {12,2}, {10,-2}, {4,6} };  
   
 int[][] mD = { {2,2,2}, {-3,3,3},{-4,4,6} };

Input:

MSelect the first Matrix (A,B,C,D)  
MA  
Select the second Matrix (A,B,C,D)  
MB  
Do you want to add or multiply them (A,M)  
MM

Output:

Matrix A:   
2 2   
2 5   
Matrix B:   
2 3 6   
5 5 5   
Product:   
14 16 22   
29 31 37

Test Case 2:

int[][] mA = { {13,15}, {12,14} };  
   
 int[][] mB = { {-1,4,9}, {2,2,2} };  
   
 int[][] mC = { {8,2}, {11,-12}, {7,4} };  
   
 int[][] mD = { {-9,-2,2}, {2,1,1},{-14,6,8} };

Input:

Select the first Matrix (A,B,C,D)  
D  
Select the second Matrix (A,B,C,D)  
D  
Do you want to add or multiply them (A,M)  
A

Output:

Matrix D:   
-9 -2 2   
M2 1 1   
-14 6 8   
Matrix D:   
-9 -2 2   
2 1 1   
-14 6 8   
Sum:   
-18 -4 4   
4 2 2   
-28 12 16

Test Case 3:

int[][] mA = { {11,3}, {15,9} };  
   
 int[][] mB = { {1,2,3}, {4,5,6} };  
   
 int[][] mC = { {7,8}, {9,-10}, {11,12} };  
   
 int[][] mD = { {1,-2,3}, {4,5,6},{-7,8,9} };

Input:

Select the first Matrix (A,B,C,D)  
D  
Select the second Matrix (A,B,C,D)  
D  
Do you want to add or multiply them (A,M)  
M

Output:

MMatrix D:   
MM1 -2 3   
MM4 5 6   
MM-7 8 9   
MMMatrix D:   
 M1 -2 3   
MM4 5 6   
M-7 8 9   
MMProduct:   
MM-28 12 18   
MM-18 65 96   
MM-38 126 108

Test Case 4:

int[][] mA = { {12,11}, {10,9} };  
   
 int[][] mB = { {8,7,6}, {5,4,3} };  
   
 int[][] mC = { {2,1}, {9,-8}, {7,6} };  
   
 int[][] mD = { {5,-4,3}, {2,1,1},{-2,3,4} };

Input:

Select the first Matrix (A,B,C,D)  
A  
Select the second Matrix (A,B,C,D)  
A  
Do you want to add or multiply them (A,M)  
A

Output:

Matrix A:   
12 11   
10 9   
Matrix A:   
12 11   
10 9   
Sum:   
MM24 22   
M 20 18

Test Case 5:

int[][] mA = { {1,1}, {2,2} };  
   
 int[][] mB = { {3,3,3}, {4,4,4} };  
   
 int[][] mC = { {5,5}, {6,-6}, {7,7} };  
   
 int[][] mD = { {8,-8,8}, {9,9,9},{-1,2,3} };

Input:

Select the first Matrix (A,B,C,D)  
D  
Select the second Matrix (A,B,C,D)  
A  
Do you want to add or multiply them (A,M)  
M

Output:

Matrix D:   
8 -8 8   
9 9 9   
-1 2 3   
Matrix A:   
1 1   
2 2   
Product:   
Can't be done.