

Fractional Knapsack Output:

Test case 1:

Test case 1 result: 240

Test case 2:

Test case 2 result: 171

Test case 3:

Test case 3 result: 0

Test case 4:

Test case 4 result: 280

Test case 5:

Test case 5 result: 170

Process finished with exit code 0

0/1 Knapsack output:

Test case 1:

This is the original matrix:

```
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]
```

New matrix:

```
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 2 , 2 , 2 , 2 , 2 , 2 , 2 ]  
[ 0 , 0 , 0 , 2 , 3 , 3 , 3 , 5 , 5 , 5 ]  
[ 0 , 0 , 0 , 2 , 3 , 3 , 3 , 5 , 5 , 5 ]  
[ 0 , 0 , 0 , 2 , 3 , 4 , 4 , 5 , 6 , 6 ]
```

Test case 1: 6

Test case 2:

This is the original matrix:

```
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]
```

New matrix:

```
[ 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 , 0 ]  
[ 0 , 0 , 0 , 0 , 0 , 10 , 10 , 10 , 10 , 10 , 10 , 10 ]  
[ 0 , 0 , 0 , 0 , 40 , 40 , 40 , 40 , 40 , 50 , 50 , 50 ]  
[ 0 , 0 , 0 , 0 , 40 , 40 , 40 , 40 , 40 , 50 , 70 , 70 ]  
[ 0 , 0 , 0 , 50 , 50 , 50 , 50 , 90 , 90 , 90 , 90 , 90 ]
```

Test case 2: 90

Test case 3:

This is the original matrix:

```
[ 0 ]  
[ 0 ]  
[ 0 ]  
[ 0 ]
```

New matrix:

[0]

[0]

[0]

[0]

Test case 3: 0

Test case 4:

This is the original matrix:

[0 , 0 , 0 , 0 , 0 , 0]

[0 , 0 , 0 , 0 , 0 , 0]

[0 , 0 , 0 , 0 , 0 , 0]

[0 , 0 , 0 , 0 , 0 , 0]

New matrix:

[0 , 0 , 0 , 0 , 0 , 0]

[0 , 0 , 0 , 0 , 0 , 0]

[0 , 0 , 0 , 0 , 0 , 0]

[0 , 0 , 0 , 0 , 0 , 0]

Test case 4: 0

Test case 5:

This is the original matrix:

[0 , 0 , 0 , 0 , 0 , 0 , 0]

[0 , 0 , 0 , 0 , 0 , 0 , 0]

[0 , 0 , 0 , 0 , 0 , 0 , 0]

[0 , 0 , 0 , 0 , 0 , 0 , 0]

New matrix:

[0 , 0 , 0 , 0 , 0 , 0 , 0]

[0 , 10 , 10 , 10 , 10 , 10 , 10]

[0 , 10 , 20 , 30 , 30 , 30 , 30]

[0 , 10 , 20 , 30 , 40 , 50 , 60]

Test case 5: 60

Process finished with exit code 0