In [1]:
```
from sympy import*
```

In [2]:
```
A=Matrix([[1,0,7],[2,1,6],[3,4,0]])
A
```

Out[2]:
$$\begin{bmatrix}1 & 0 & 7\\2 & 1 & 6\\3 & 4 & 0\end{bmatrix}$$

In [3]:
```
A.det()
```

Out[3]: 11

Using python program insert row [3,4] in the given matrices

In [11]:
```
A=Matrix([[2,5],[-1,4]])
A
```

Out[11]:
$$\begin{bmatrix}2 & 5\\-1 & 4\end{bmatrix}$$

In [13]:
```
A.row_insert(1,Matrix([[3,4]]))
```

Out[13]:
$$\begin{bmatrix}2 & 5\\3 & 4\\-1 & 4\end{bmatrix}$$

USing python program delete first row from the given matrix

In [19]:
```
A=Matrix([[4,1,0],[7,5,2],[1,-6,2]])
A
A.row_del(1)
A
```

Out[19]:
$$\begin{bmatrix}4 & 1 & 0\\1 & -6 & 2\end{bmatrix}$$

Using Python program delete second column from the given matrix

In [23]:
```
A=Matrix([[9,57,2],[1,2,3],[4,5,6]])
A.col_del(1)
A
```

Out[23]:
$$\begin{bmatrix}9 & 2\\1 & 3\\4 & 6\end{bmatrix}$$

In [ ]:
```

```