1. ...

$\sin x$
$\sin(x+y)$
$\operatorname{supp} x$
$\operatorname{supp}(x+y)$

$$\mathbb{N} \tag{1}$$
$$\mathbb{R} \tag{2}$$
$$\mathbb{C} \tag{3}$$
$$\mathbb{Z} \tag{4}$$

$$ \tag{5}$$

$$\Upsilon \tag{6}$$
$$MMDCCCLXXV \tag{7}$$
$$121 \tag{8}$$

$$\begin{cases} 1+1=\ 3 \to 2 \\ 1+1=\ 2 \to 3 \\ \lightning \end{cases} \tag{9}$$

Зелёный текст!
Неправильно→Правильно

fsdgfglkdfglkkhkuhkjkh

$$\vec{vector} = \vec{vec}1 + \vec{addition}\_vector \tag{10}$$

```
Hello! Привет!! ⩾ 1
```

$$\mathbf{bold_a} = \sqrt{\frac{\mathbf{10}}{\mathbf{34\vec{3}45}}} + \sqrt{\frac{10}{34\vec{3}45}} \tag{11}$$

$$\cancel{Badthing} \tag{12}$$

$$\cancel{Badthing} \tag{13}$$

$$\cancel{Badthing} \tag{14}$$

$$\cancel{\frac{e^{\eta}}{n}}^{\infty} \tag{15}$$

$$\Re z \tag{16}$$

$$\Im z \tag{17}$$

$$\operatorname{supp} s \tag{18}$$

$$\begin{bmatrix} a_{11} & a_{1n} \\ a_{21} & \\ & \\ a_{n1} & a_{nn} \end{bmatrix} \tag{19}$$

$$\begin{bmatrix} a_{11} & \cdots & a_{1n} \\ \vdots & \ddots & \vdots \\ a_{n1} & \cdots & a_{nn} \end{bmatrix} \tag{20}$$

Hello!

```
import numpy as np

def incmatrix(genl1,genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int)  #dummy variable

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)

    for i in range(m-1):
        for j in range(i+1, m):
            [r,c] = np.where(M2 == M1[i,j])
            for k in range(len(r)):
                VT[(i)*n + r[k]] = 1;
```

```
                VT[(i)*n + c[k]] = 1;
                VT[(j)*n + r[k]] = 1;
                VT[(j)*n + c[k]] = 1;

                if M is None:
                    M = np.copy(VT)
                else:
                    M = np.concatenate((M, VT), 1)

                VT = np.zeros((n*m,1), int)

    return M
```