目录 1

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Code

Listing 1: python code

```
1
        import numpy as np
2
3
        def incmatrix(genl1,genl2):
            m = len(genl1)
4
            n = len(gen12)
6
            M = None #to become the incidence matrix
            VT = np.zeros((n*m,1), int) #dummy variable
7
8
9
            #compute the bitwise xor matrix
10
            M1 = bitxormatrix(genl1)
11
            M2 = np.triu(bitxormatrix(genl2),1)
12
13
            for i in range(m-1):
                for j in range(i+1, m):
14
                    [r,c] = np.where(M2 == M1[i,j])
15
16
                    for k in range(len(r)):
                        VT[(i)*n + r[k]] = 1;
17
                        VT[(i)*n + c[k]] = 1;
18
                        VT[(j)*n + r[k]] = 1;
19
20
                        VT[(j)*n + c[k]] = 1;
21
22
                        if M is None:
23
                             M = np.copy(VT)
24
                        else:
25
                             M = np.concatenate((M, VT), 1)
26
27
                        VT = np.zeros((n*m,1), int)
28
29
            return M
```