目录 1

目录

Code

Listing 1: python code

```
1
    import numpy as np
2
3
    tp = (1,2,3,4,5,6,7,8,9,10)
4
    print(tp[:5])
    print(tp[5:])
5
6
    "string"
7
8
    def incmatrix(genl1,genl2):
9
        m = len(genl1)
10
        n = len(gen12)
11
        M = None #to become the incidence matrix
12
        VT = np.zeros((n*m,1), int) #dummy variable
13
14
        #compute the bitwise xor matrix
15
        M1 = bitxormatrix(genl1)
16
        M2 = np.triu(bitxormatrix(genl2),1)
17
        for i in range(m-1):
18
19
             for j in range(i+1, m):
                 [r,c] = np.where(M2 == M1[i,j])
20
21
                 for k in range(len(r)):
22
                     VT[(i)*n + r[k]] = 1;
23
                     VT[(i)*n + c[k]] = 1;
24
                     VT[(j)*n + r[k]] = 1;
25
                     VT[(j)*n + c[k]] = 1;
26
                     if M is None:
27
28
                         M = np.copy(VT)
29
                     else:
30
                         M = np.concatenate((M, VT), 1)
31
32
                     VT = np.zeros((n*m,1), int)
33
```

目录 2

34 return M

Listing 2: python code

```
1
        import numpy as np
2
3
        def incmatrix(genl1,genl2):
            m = len(genl1)
4
5
            n = len(gen12)
6
            M = None #to become the incidence matrix
7
            VT = np.zeros((n*m,1), int) #dummy variable
8
9
            #compute the bitwise xor matrix
            M1 = bitxormatrix(genl1)
10
11
            M2 = np.triu(bitxormatrix(genl2),1)
12
            for i in range(m-1):
13
14
                 for j in range(i+1, m):
                     [r,c] = np.where(M2 == M1[i,j])
15
                     for k in range(len(r)):
16
17
                         VT[(i)*n + r[k]] = 1;
18
                         VT[(i)*n + c[k]] = 1;
19
                         VT[(j)*n + r[k]] = 1;
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
```