```
In [1]:
   import numpy as np
In [64]:
 1 polyB = [1,2,-3,0,0,4,0,-1]
   polyA = [0,1,1]
rotate window 180 degree
In [65]:
 1 polyB.reverse()
padding polyA
In [66]:
    for i in range(1,len(polyB)):
 2
        polyA.insert(0,0);
 3
 4
    for i in range(1,len(polyB)):
        polyA.append(0);
 5
 6
In [67]:
 1 polyA
Out[67]:
[0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 0, 0]
In [68]:
 1
    ans=[0]*(len(polyA)-len(polyB)+1)
 2
 3
    for i in range(0,len(polyA)-len(polyB)+1):
 4
        for j in range(len(polyB)):
 5
             ans[i]+=polyA[i+j]*polyB[j]
 6
In [69]:
   ans
Out[69]:
[0, 1, 3, -1, -3, 0, 4, 4, -1, -1]
```

In []:

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