```
In [4]: import numpy as np
        def moving average (a, k): #a is the input array and k is the window#
            temp=np.cumsum(a,dtype=float)
            temp[3:]=temp[3:]-temp[:-3]
            return temp[3-1:]/3
        lst=[3,5,7,2,8,10,11,65,72,81,99,100,150]#input#
        a = np.array(lst)
        op array = moving average(a, k=3) #output#
        print("Moving average of", lst, "are:\n")
        print("Output:\n", op_array)
        Moving average of [3, 5, 7, 2, 8, 10, 11, 65, 72, 81, 99, 100, 150] ar
        e:
        Output:
                       4.66666667 5.666666667 6.66666667 9.66666667
         [ 5.
          28.66666667 49.3333333 72.66666667 84. 93.33333333
         116.33333333]
In [ ]:
In [ ]:
```

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