

## Test Cases for Question 1

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### **Part 1 - Test cases without repetitive elements**

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1\_One element

1  
5

5  
0

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2\_Two elements

2  
78 76

76 78  
1

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3\_Sorted in ascending order

20  
-999 -875 -500 -387 -252 -222 -111 -98 0 12 212 312 412 512 612 712 891  
910 918 999

-999 -875 -500 -387 -252 -222 -111 -98 0 12 212 312 412 512 612 712 891  
910 918 999  
190

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4\_Sorted in descending order

20  
999 875 500 387 252 222 111 98 0 -12 -212 -312 -412 -512 -612 -712 -891 -  
910 -918 -999

-999 -918 -910 -891 -712 -612 -512 -412 -312 -212 -12 0 98 111 222 252  
387 500 875 999  
190

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5\_Random sequence\_1

24  
1 11 111 2 22 222 111 121 131 125 145 165 178 201 245 224 236 241 5 7 10  
201 241 250

1 2 5 7 10 11 22 111 111 121 125 131 145 165 178 201 201 222 224 236 241  
241 245 250  
120

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6\_Random sequence\_2

21  
15 7 22 17 25 24 33 28 44 42 99 44 100 99 412 289 534 432 675 634 765

7 15 17 22 24 25 28 33 42 44 44 99 99 100 289 412 432 534 634 675 765

120

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7\_Front elements are sorted in ascending order

21

10 20 30 40 50 170 190 110 70 160 90 210 120 60 180 130 100 200 80 140  
150

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

210

77

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8\_Front elements are sorted in descending order

21

50 40 30 20 10 170 190 110 70 160 90 210 120 60 180 130 100 200 80 140  
150

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

210

77

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9\_Middle elements are sorted in ascending order

21

140 50 80 20 60 200 150 190 90 100 110 120 130 10 180 70 170 40 210 160  
30

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

210

87

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10\_Middle elements are sorted in descending order

21

140 50 80 20 60 200 150 190 130 120 110 100 90 10 180 70 170 40 210 160  
30

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

210

87

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11\_Back elements are sorted in ascending order

21

130 80 100 40 140 50 110 20 90 70 10 160 150 30 120 60 170 180 190 200  
210

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

210

87

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12\_Back elements are sorted in descending order

21

130 80 100 40 140 50 110 20 90 70 10 160 150 30 120 60 210 200 190 180  
170

10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200  
210  
74

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## **Part 2 - Test cases with repetitive elements**

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13\_Same elements

25  
12  
12

12  
12  
300

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14\_Repitition of smallest element

22  
10 20 210 190 150 100 160 70 80 60 220 10 10 200 140 120 170 180 90 40 10  
10

10 10 10 10 10 20 40 60 70 80 90 100 120 140 150 160 170 180 190 200 210  
220  
80

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15\_Repitition of largest element

22  
220 220 210 190 150 100 160 70 80 60 220 220 10 200 140 120 170 180 90 40  
110 220

10 40 60 70 80 90 100 110 120 140 150 160 170 180 190 200 210 220 220 220  
220 220  
102

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16\_Repitition of some random element

22  
130 20 110 190 150 100 160 70 80 60 220 110 10 200 140 120 170 180 90 110  
110 50

10 20 50 60 70 80 90 100 110 110 110 110 120 130 140 150 160 170 180 190  
200 220  
85

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