**TEST CASE 1**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 4  35 65 105 125  100 | **2** |

**TEST CASE 2**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 3  20 30 50  100 | **3** |

**TEST CASE 3**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 4  21 17 36 42  50 | **2** |

**TEST CASE 4**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 5  37 29 45 67 32  99 | **3** |

**TEST CASE 5**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 4  40 55 25 35  100 | **3** |

**TEST CASE 6**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 5  55 44 33 22 11  164 | **4** |

**TEST CASE 7**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 6  10 20 30 40 50 50  150 | **5** |

**TEST CASE 8**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 0  12 34  50 | **0** |

**TEST CASE 9**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 3  1000000000 64564566 95864  2147483647 | **3** |

**TEST CASE 10**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 8  43  422  56  2676  93484  2000000000  9999  2147483647  42 | **0** |