**TEST CASE 1**

| **INPUT** | **OUTPUT** |
| --- | --- |
| 4  1 3 3 6  3 | **2** |

**TEST CASE 2**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **5**  **11 33 55 44 77**  **44** | **1** |

**TEST CASE 3**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **10**  **9 9 3 9 9 9 9 9 9 9**  **9** | **9** |

**TEST CASE 4**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **5**  **1 3 5 7 3**  **3** | **2** |

**TEST CASE 5**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **8**  **28 -32 17 -28 37 28 28 28**  **-28** | **1** |

**TEST CASE 6**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **2**  **983646 2147483647**  **2147483647** | **1** |

**TEST CASE 7**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **8**  **67 46 27 84 56 41 67 46 46**  **46** | **2** |

**TEST CASE 8**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **6**  **62 62 87 23 73 62**  **62** | **3** |

**TEST CASE 9**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **3**  **343 642 738 281**  **281** | **0** |

**TEST CASE 10**

| **INPUT** | **OUTPUT** |
| --- | --- |
| **14**  **7645**  **84657**  **4834**  **45279**  **970975**  **7481**  **853498**  **734**  **1063**  **214748**  **3647**  **7482**  **2147383649**  **7481**  **7481** | **2** |