|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| total | val | ID[i] | I | Iteration |
| 1 | 1 | ‘1’ | 0 | 1 |
| 5 | 2 | ‘2’ | 1 | 2 |
| 8 | 3 | ‘3’ | 2 | 3 |
| 16 | 4 | ‘4’ | 3 | 4 |
| 21 | 5 | ‘5’ | 4 | 5 |
| 24 | 6 | ‘6’ | 5 | 6 |
| 31 | 7 | ‘7’ | 6 | 7 |
| 38 | 8 | ‘8’ | 7 | 8 |

ID = “12345678”

ID = “31608135”

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| total | val | ID[i] | I | Iteration |
| 3 | 3 | ‘3’ | 0 | 1 |
| 5 | 1 | ‘1’ | 1 | 2 |
| 11 | 6 | ‘6’ | 2 | 3 |
| 11 | 0 | ‘0’ | 3 | 4 |
| 19 | 8 | ‘8’ | 4 | 5 |
| 21 | 1 | ‘1’ | 5 | 6 |
| 24 | 3 | ‘3’ | 6 | 7 |
| 25 | 5 | ‘5’ | 7 | 8 |