**Problem Statement:** Print unique numbers in the given set of integers

In this problem, we will print only unique or non-repeated numbers by neglecting repeated numbers.

**Example:** If given set of numbers is 4,4,2,5,1 then 2,5,1 will be printed

|  |  |
| --- | --- |
| Expected Input | Expected Output |
| 1 1 2 2 3  22 11 11 12  12 13 12 14 12 3  1 2 3 4  12 12 12 12 3 | 3  22 12  13 14 3  1 2 3 4  3 |

**Pseudo Code**

1. Read c
2. Take b as an empty array
3. Initialise i, j, u, i1, r
4. Set i=1
5. If i<=c
   1. Enter numbers into ‘a’
   2. b[i]=a
   3. Increment i
6. u=1
7. Set i1=1 and if i1<=i-1
   1. Set r=0
   2. Set j=1
   3. If j<=i-1
      1. If b[i1] == b[j] then Increment r
      2. Increment j
   4. If r==1 then
      1. d[u]=b[i1]
      2. Increment u
   5. Increment i1
8. Print elements in d
9. Stop

**Trace Table**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| c | b=”” | i=1 | i<=c | a | b[i]=a | i=i+1 | u=1 | i1=1 | i1<=i-1 | r=0 | j=1 | j<=i-1 | b[i1]==b[j] | r++ | j++ | r==1 | d[u]=b[i1] | u++ | i1++ | print d |
| 4 |  | 1 | TRUE | 1 | 1 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | TRUE | 2 | 2 | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | TRUE | 3 | 3 | 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | TRUE | 4 | 4 | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | FALSE |  |  |  | 1 | 1 | TRUE | 0 | 1 | TRUE | TRUE | 1 | 2 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 3 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 4 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 5 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | FALSE |  |  |  | TRUE | 1 | 2 | 2 |  |
|  |  |  |  |  |  |  |  |  | TRUE | 0 | 1 | TRUE | TRUE | 1 | 2 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 3 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 4 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 5 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | FALSE |  |  |  | TRUE | 2 | 3 | 3 |  |
|  |  |  |  |  |  |  |  |  | TRUE | 0 | 1 | TRUE | TRUE | 1 | 2 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 3 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 4 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 5 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | FALSE |  |  |  | TRUE | 3 | 4 | 4 |  |
|  |  |  |  |  |  |  |  |  | TRUE | 0 | 1 | TRUE | TRUE | 1 | 2 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 3 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 4 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | TRUE | FALSE |  | 5 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | FALSE |  |  |  | TRUE | 4 | 5 | 5 |  |
|  |  |  |  |  |  |  |  |  | FALSE |  |  |  |  |  |  |  |  |  |  | 1 2 3 4 |

|  |  |  |  |
| --- | --- | --- | --- |
| Expected Input | Expected Output | Actual Output | Test Result |
| 1 1 2 2 3  22 11 11 12  12 13 12 14 12 3  1 2 3 4  12 12 12 12 3 | 3  22 12  13 14 3  1 2 3 4  3 | 3  22 12  13 14 3  1 2 3 4  3 |  |

**Final Result**

**Expected Inputs and Outputs**



