**Question**

1. Delete Duplicate Numbers

**PSEUDOCODE**

*Step1*: Read the contents of ‘**files.in**’ into a **buffer.**

*Step2*: Create an empty array ‘**tests**’ of size 100000 according to the question constraint.

*Step3*: Loop through ‘**buffer**’using any suitable method and read each test-case into ‘**tests**’.

*Step4*: Create an integer array ‘**ids**’ and a character array ‘**filename**’ representing the id of a file and name respectively.

*Step5:* Loop through ‘**tests**’. For every testcase, check if the name of the file exists in ‘**filename**’. If yes GO TO step 7 else GO TO step 6.

*Step6:* Add the name of file to ‘**filename**’ since file does not exist yet. Also, add the id of file to ‘**file\_id**’ at a location corresponding to the filename.

*Step7:* Check if the existing file id is less than the current file id. If existing id is less than current id, retain its value. Otherwise replace existing id with current id.

*Step8:* Sort ‘**ids**’ in ascending order.

Step9: For each test-case, print each file id on a single line separated with spaces.

**ALGORITHM**

**START**

**OPEN** files.in

CREATE an array named *buffer*

CREATE an array named *tests*

**READ** the content of files.in into *buffer*

**WHILE** *buffer* is not empty

**READ** each testcase into *tests*

**FOR** each testcase in tests

**CREATE** an array named *file\_names*

**CREATE** an array named *file\_ids*

**IF** filename of testcase is not in *file\_names*

**INSERT** name of file into *file\_names* at a position *j*

**INSERT** id of file into *file\_ids* at a position *j*

**ELSE**

**IF** existing file id <= new file id

retain existing file id in file\_ids

**ELSE**

replace existing file id with new id

**ENDIF**

**ENDIF**

**ENDFOR**

**SORT** *file\_ids* in ascending order

**PRINT** all ids in *file\_ids on a* line separated with spaces.

**ENDWHILE**

**END**

files.in

1

3

file 2

file 3

file 1