Code:

import java.io.BufferedReader;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileReader;

import java.io.IOException;

import java.util.HashMap;

public class TwoSumHash {

public static void main(String[] args) throws FileNotFoundException, IOException {

long i,y;int count=0;

File f=new File("E://2sum.txt");

BufferedReader br=new BufferedReader(new FileReader(f));

HashMap<Long,Integer> hm=new HashMap<>();

String line=br.readLine();

while(line!=null){

i=Long.parseLong(line);

hm.put(i,0);

line=br.readLine();

}

System.out.println(hm.size());

for (int j =0; j <=10000; j++) {

for (Long x:hm.keySet()) {

y=j-x;

if(x==y)

continue;

if(hm.containsKey(y)){

count++;

break;

} }

}

System.out.println("The no. of 2 sum is:"+count);

}

}

Output:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | T from -10,000 to -8000 | (8 mins) | 44 |
| 2 | T from -7999 to -5001 | (11 mins) | 63 |
| 3 | T from -5000 to -1 | (15 mins) | 107 |
| 4 | T from 0 to 10,000 | (50 mins) | 213 |
|  |  | Total = | 427 |

