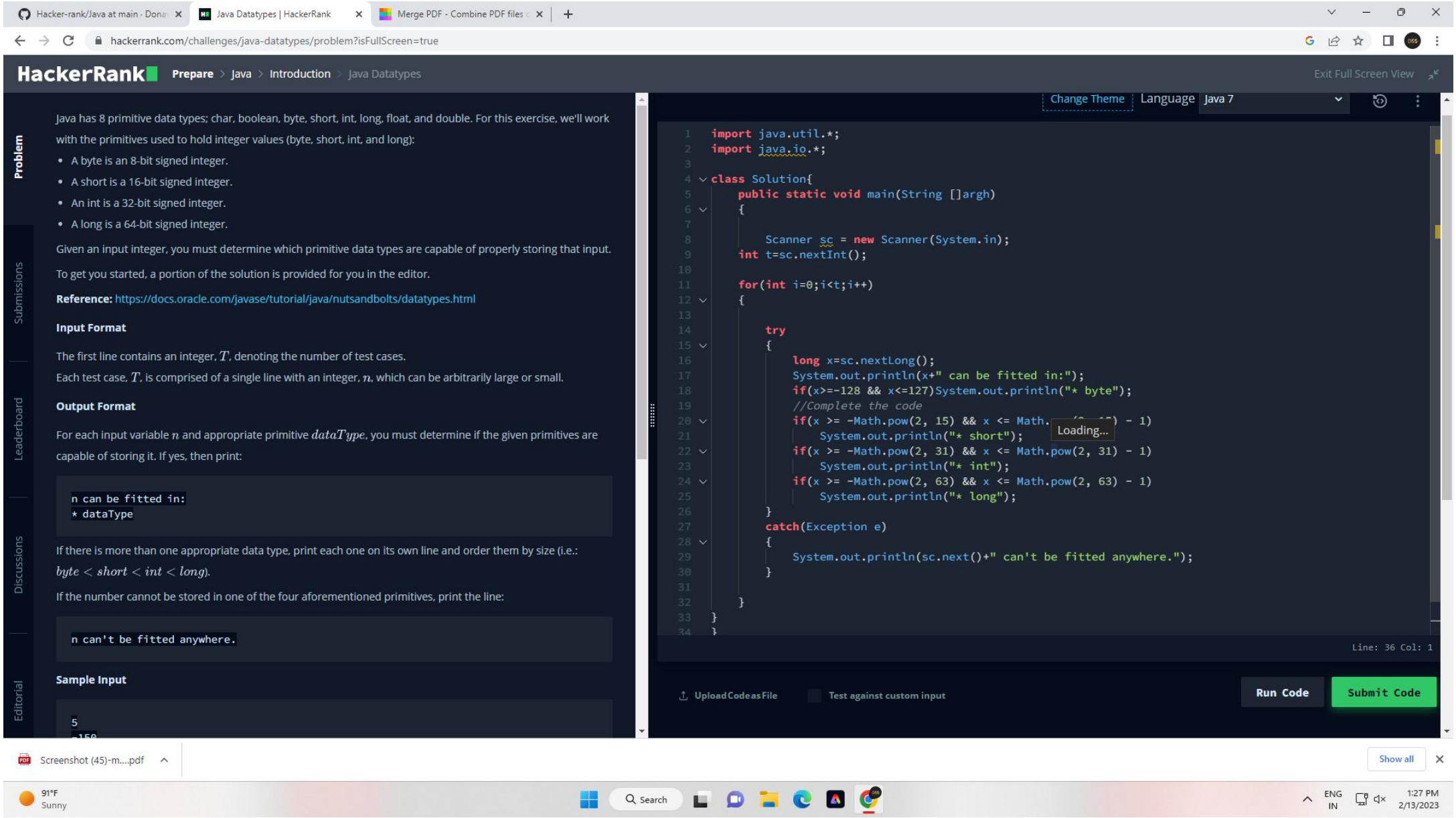
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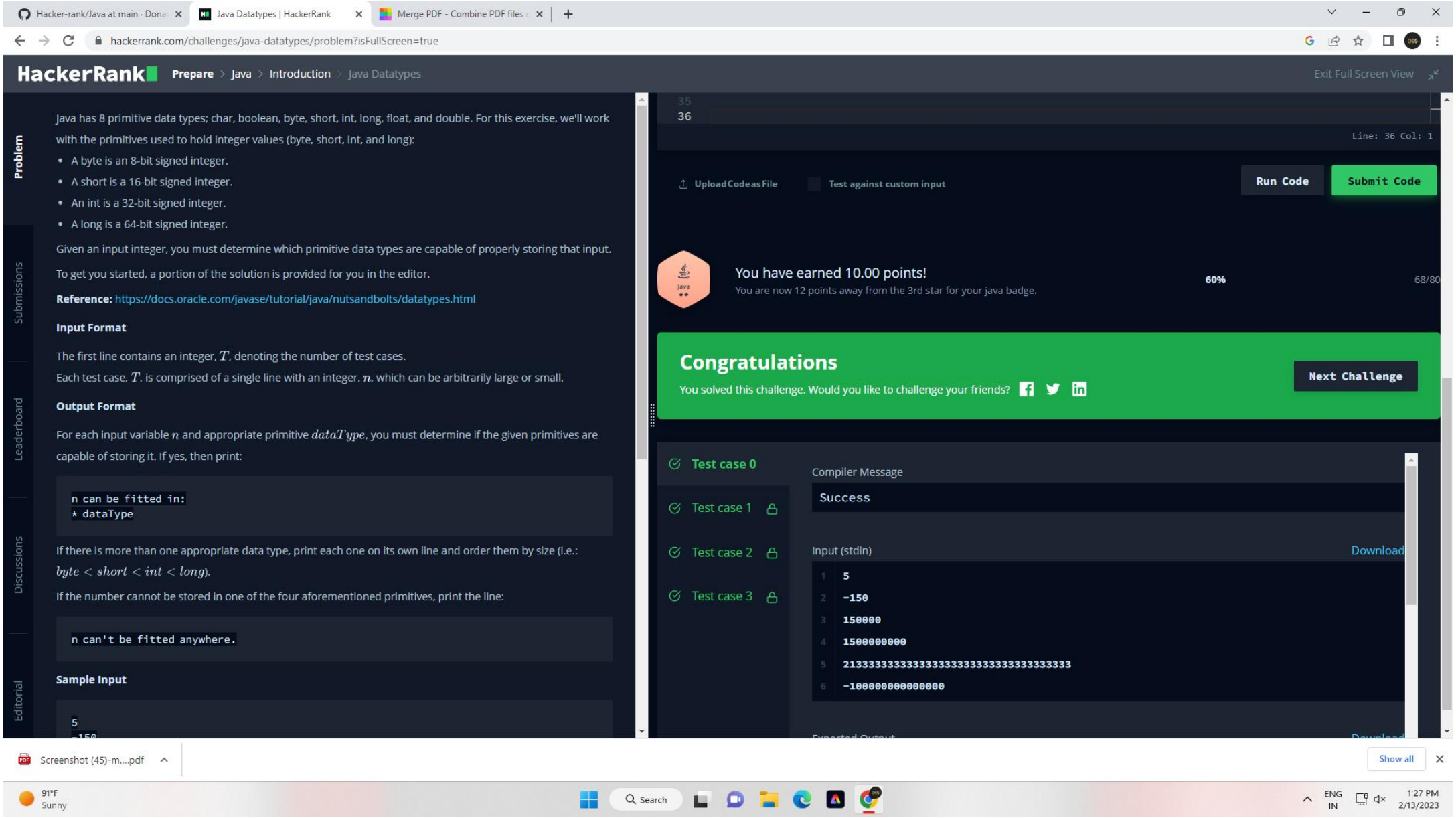
Editorial
Java has 8 primitive data types; char, boolean, byte, short, int, long, float, and double. For this exercise, we'll work with the primitives used to hold integer values (byte, short, int, and long):
A byte is an 8-bit signed integer.
A short is a 16-bit signed integer.
An int is a 32-bit signed integer.
A long is a 64-bit signed integer.
Given an input integer, you must determine which primitive data types are capable of properly storing that input.
To get you started, a portion of the solution is provided for you in the editor.
Reference: https://docs.oracle.com/javase/tutorial/java/nutsandbolts/datatypes.html
Input Format
The first line contains an integer, T, denoting the number of test cases.
Each test case, T, is comprised of a single line with an integer, n, which can be arbitrarily large or small.
Output Format
For each input variable n and appropriate primitive dataType, you must determine if the given primitives are capable of storing it. If yes, then print:
n can be fitted in:
* dataType
If there is more than one appropriate data type, print each one on its own line and order them by size (i.e.: byte < short < int < long).
If the number cannot be stored in one of the four aforementioned primitives, print the line:
n can't be fitted anywhere.
Sample Input
5
Change Theme
Language
Java 7
import java.util.*;
import java.io.*;
class Solution{
public static void main(String []argh)
{
Scanner sc = new Scanner(System.in);
int t=sc.nextInt();
for(int i=0;i<t;i++)
{
try
{
long x=sc.nextLong();
System.out.println(x+" can be fitted in:");
if(x>=-128 && x<=127)System.out.println("* byte");
//Complete the code
if(x >= -Math.pow(2, 15) && x <= Math.
Loading...
- 1)
System.out.println("* short");
if(x >= -Math.pow(2, 31) && x <= Math.pow(2, 31) - 1)
System.out.println("* int");
if(x >= -Math.pow(2, 63) && x <= Math.pow(2, 63) - 1)
System.out.println("* long");
}
catch(Exception e)
{
System.out.println(sc.next()+" can't be fitted anywhere.");
}
}
}
Line: 36 Col: 1
Upload Code as File
Test against custom input
Run Code
Submit Code
Screenshot (45)-m....pdf
Show all
91°F
Sunny
Search
ENG
IN
1:27 PM
2/13/2023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If the number cannot be stored in one of the four aforementioned primitives, print the line:
n can't be fitted anywhere.
Sample Input
5
-150
35
36
Line: 36 Col: 1
Upload Code as File
Test against custom input
Run Code
Submit Code
You have earned 10.00 points!
You are now 12 points away from the 3rd star for your java badge.
60%
68/80
Congratulations
You solved this challenge. Would you like to challenge your friends?
Next Challenge
Test case 0
Test case 1
Test case 2
Test case 3
Compiler Message
Success
Input (stdin)
Download
5
-150
150000
1500000000
21333333333333333333333333333333333
-100000000000000
Screenshot (45)-m....pdf
Show all
91°F
Sunny
Search
ENG
IN
1:27 PM
2/13/2023