

Test Case Generator Tutorial



Testcase:

≤

≤

Define Integer Variables



Testcase Format



Integer ▾

Create ⚙

Finish Line

Reset Testcase



Undo Testcase ↶

Testcase Constraints



Sum of

≤

Add +

File Format



Amount:

Name:

Extension:

Numbering:

Complete ✓

// Content might not match with yours!

// First line represents testcase count

1

5

2

Testcase Interval Information

- 1 - Enter your lower and upper bound for testcase
- 2 - Both lower and upper bounds must be positive integer

Close



Testcase:

\leq

\leq

Variable Definition Information

- 1 - These variables are integer and have a symbol such as 'x', 'y', 'z'
- 2 - Registered variables can be used in lower or upper bounds by typing their symbol names into fields
- 3 - To add first symbolic variable press to Add button
- 4 - In creation firstly select its one-letter symbol
- 5 - Secondly, determine its lower and upper bound (Here upper and lower bound can be integer and previous registered variables such as 'n', or 'a' if they exist)
- 6 - Finally, you can select its sign properties, another features, or allow only specific integers

Close

Define Integer Variables



a

b



Symbol Letter:

c

Lower Bound

\leq

c

\leq

Upper Bound

Allowed Integers



Any

Positive

Negative

Features

Even

Odd

Prime

Not Prime

Factorial

Power of 2

Define Variable

Cancel

Testcase Format Information

- 1 - Select type and press to create button
- 2 - Finish Line button jumps to the one line below in your input file
- 3 - Reset Testcase button clears the testcase fields
- 4 - Undo Testcase button undos your last testcase format
- 5 - You can follow your testcase format from the side code panel
- 6 - Content might not match with yours please only look at the file and line format

Type Specific Information

Defined Variable

Char

Integer

Double

Pair

Array

Graph

String

Close

Testcase Format



Integer



Create

Defined Variable

Char

Integer

Double

Pair

Array

Graph

String

Finish Line

Reset Testcase

Undo Testcase

Type Specific Information

Defined Variable Char Integer Double Pair Array Graph String



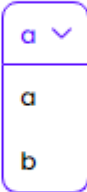

Defined Var. 1 - Select the one-letter symbol from the dropdown menu



Defined Var. 2 - Press to Create button to write defined variable to file

Defined Var. 3 - Don't forget; writing must needed to use variable in array or graph creation

Defined Var. 4 - In a testcase all values of the symbol such as (n,m) are same. e.g. when you write 'n' to the file many times its value is same within a testcase but it may differ in another testcases

Testcase Format

 Defined Variable   Create 

Finish Line Reset Testcase  Undo Testcase 

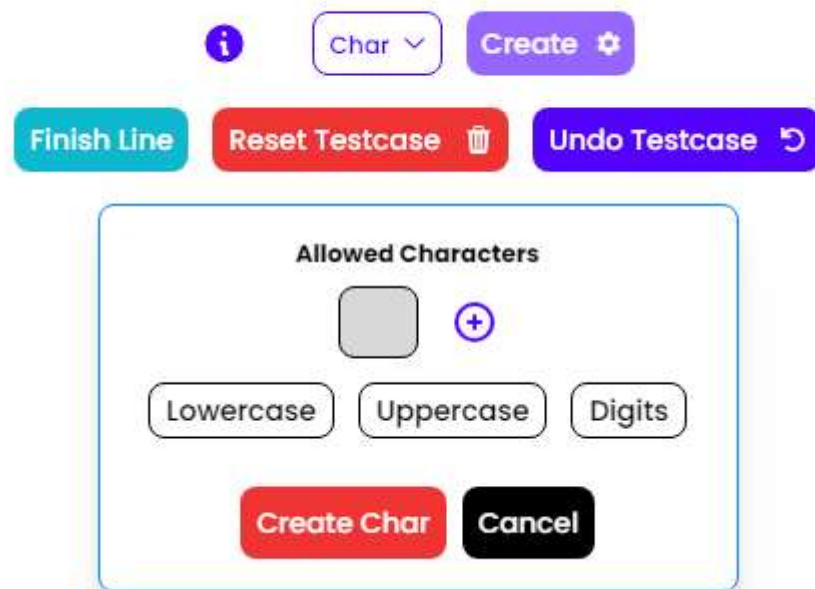
Type Specific Information



Char 1 - Specific characters can be added

Char 2 - Specifically lowercase, uppercase, or digits can be allowed only if you want

Testcase Format



Type Specific Information

Defined Variable Char **Integer**

Double Pair Array Graph String

Int 1 - Enter lower and upper bounds (integer or registered symbol such as a, n, m)
Int 2 - Allow certain integers, determine sign properties, and select features

Testcase Format



Integer ▾

Create ⚙

Finish Line

Reset Testcase 🗑

Undo Testcase ↶

Lower Bound ≤ int ≤ Upper Bound

Allowed Integers

+

Any

Positive

Negative

Features

Even

Odd

Prime

Not Prime

Factorial

Power of 2

Create Integer

Cancel

Type Specific Information

Defined Variable

Char

Integer

Double

Pair

Array

Graph

String

Double 1 - Enter lower and upper bounds (double or registered symbol such as a, n, m)

Double 2 - Select specific precision checkbox if you want fix number of digits after point

Testcase Format



Double ▾

Create ⚙

Finish Line

Reset Testcase 🗑

Undo Testcase ↶

Lower

≤

double

≤

Upper

Specific Precision?

☐

Create Double

Cancel

Type Specific Information

Defined Variable Char Integer

Double **Pair** Array Graph String

Pair 1 - Select the type of first and second element and edit their contents

Pair 2 - Select features if you want, these features only works when 1st and 2nd types are same

Testcase Format

i Pair

First Element:

Second Element:

Features

There are 4 type:
Integer
Char
Double
String

Warning:
After you select first type if you don't create and try to select second type app will crush

Type Specific Information

Defined Variable Char Integer
Double Pair **Array** Graph String

- Array 1 - Select dimension and specify size (length or row & column)
Array 2 - For using registered symbols such as (n,m,...), they need to be written to the file first (Registering is not enough)
Array 3 - Select element type and edit its content
Array 4 - Select some array features if you want

Testcase Format

i Array

Dimension: 1-D Length:

Element Type: Select

Array Features

Sorted (Ascending) Sorted (Descending)
Single Element Permutation Unique Elements

There are 5 type:
Integer
Char
Double
String
Pair

Type Specific Information

Defined Variable Char Integer
Double Pair Array **Graph** String

Graph 1 - Determine whether it is tree or not

Graph 2 - Select edge count and node count from written variables such as (n,a,x) by using dropdown menu

Graph 3 - Dropdown menu can seems empty if you don't have any written variables




Graph 4 - Select your index style



Graph 5 - Determine whether your graph is directed or weighted

Graph 6 - If you select weighted option, determine lower and upper bounds of weights (they can be integer or registered symbol such as (n,m))






Graph 7 - Determine features of the graph

Testcase Format

 Graph  Create 

Finish Line Reset Testcase  Undo Testcase 

Is It Tree? ☐

Node Count:   0-indexed  Edge Count:  

Is Directed? ☐ Is Weighted? ☒

Lower Bound \leq w \leq Upper Bound

Acyclic Connected No Self Loop


No Multiple Edges

Create Graph Cancel

Warning:
Without defined variables
you can't select node and
edge count

Tree's special testcase format

Testcase Format

 Graph ▾ Create ⚙️

Finish Line Reset Testcase 🗑️ Undo Testcase ↶

Is It Tree? ☒

Node Count: a ▾ 0-indexed ▾

Is Weighted? ☒

Lower Bound ≤ w ≤ Upper Bound

Create Tree Cancel

Type Specific Information



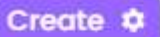
Defined Variable Char Integer
Double Pair Array Graph **String**




String 1 - Determine string length interval, upper and lower bounds can be integer or registered variables




String 2 - Select content features in the same way with char creation

String 3 - You can select additional string features



Testcase Format




 String  

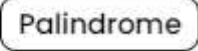
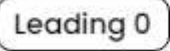
String Length:  ≤  ≤ 


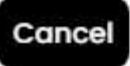
Allowed Characters

Features

Testcase Constraints Information

- 1 - Generally sum of some variables must be constrained
- 2 - To apply constraint to registered variable such as (n,m) you must write it to the file
- 3 - Input field only accepts integer value

Close

Testcase Constraints



Sum of

a v

a

b

≤

Add +

Testcase Constraints

a

≤



b

≤



Sum of

v

≤

Add +

File Format Information

- 1 - Specify file amount (allows only integer)
- 2 - Determine file name (Letters and digits are allowed)
- 3 - Select file extension
- 4 - Select file numbering; e.g., 00 means file00.txt, file01.txt, etc.

Close

File Format



Amount:

Name:

Extension:

txt ▾

txt

in

gir

Numbering:

00 ▾

00

01

1

0

**After pressing the complete button
it throws pop up screen for
downloading**

Complete ✓

Successfully created!





Your Inputs Are Ready!


Download

downloads the files containing the test cases in zip with Inputs.zip name

 Inputs.zip
451 B • Bitti

 example1.txt

 example2.txt

 example3.txt