> mochatest@1.0.0 test C:\Users\tomlc\node\_mod

> jest

PASS ./VH\_TicTacToe.test.js

● Console

console.log

Passed, 0, In: O,O,E,E,X,O,X,X,X; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 0, In: O,O,E,E,X,O,X,X,X; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 1, In: O,O,E,X,X,X,E,X,O; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 1, In: O,O,E,X,X,X,E,X,O; Assert: null

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 2, In: X,X,X,O,O,E,E,X,O; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 2, In: X,X,X,O,O,E,E,X,O; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 3, In: X,O,X,O,X,O,O,X,X; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 3, In: X,O,X,O,X,O,O,X,X; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 4, In: O,O,O,O,X,X,E,X,X; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 4, In: O,O,O,O,X,X,E,X,X; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 5, In: O,X,X,O,O,O,E,X,X; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 5, In: O,X,X,O,O,O,E,X,X; Assert: null

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 6, In: X,X,O,O,O,X,X,X,O; Assert: null

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 6, In: X,X,O,O,O,X,X,X,O; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 7, In: O,X,X,E,X,X,O,O,O; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 7, In: O,X,X,E,X,X,O,O,O; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 8, In: E,O,X,O,E,X,O,E,X; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 8, In: E,O,X,O,E,X,O,E,X; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 9, In: E,X,O,O,X,E,O,X,E; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 9, In: E,X,O,O,X,E,O,X,E; Assert: null

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 10, In: X,E,O,X,O,E,X,O,E; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 10, In: X,E,O,X,O,E,X,O,E; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 11, In: X,O,E,X,O,E,E,O,X; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 11, In: X,O,E,X,O,E,E,O,X; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 12, In: X,X,O,X,O,O,X,O,X; Assert: X

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 12, In: X,X,O,X,O,O,X,O,X; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

console.log

Passed, 13, In: X,X,O,O,O,X,X,X,O; Assert: null

at Object.<anonymous> (VH\_TicTacToe.test.js:106:13)

console.log

Failed, 13, In: X,X,O,O,O,X,X,X,O; Assert: O

at Object.<anonymous> (VH\_TicTacToe.test.js:112:13)

PASS ./H\_censor\_strings.test.js

● Console

console.log

\* l\*v\* j\*v\*scr\*pt pr\*gr\*mm\*ng.

at uncensor (H\_censor\_strings.js:14:13)

console.log

Passed, 0, In: Wh\*r\* d\*d my v\*w\*ls g\*?,eeioeo; Assert: Where did my vowels go?

at Object.<anonymous> (H\_censor\_strings.test.js:44:17)

console.log

Wh\*r\* d\*d my v\*w\*ls g\*?

at uncensor (H\_censor\_strings.js:14:13)

console.log

Failed, 0, In: Wh\*r\* d\*d my v\*w\*ls g\*?,eeioeo; Assert: Where did my vewols go?

at Object.<anonymous> (H\_censor\_strings.test.js:50:17)

console.log

Wh\*r\* d\*d my v\*w\*ls g\*?

at uncensor (H\_censor\_strings.js:14:13)

console.log

Passed, 1, In: abcd,; Assert: abcd

at Object.<anonymous> (H\_censor\_strings.test.js:44:17)

console.log

abcd

at uncensor (H\_censor\_strings.js:14:13)

console.log

Failed, 1, In: abcd,; Assert: abcde

at Object.<anonymous> (H\_censor\_strings.test.js:50:17)

console.log

abcd

at uncensor (H\_censor\_strings.js:14:13)

console.log

Passed, 2, In: \*PP\*RC\*S\*,UEAE; Assert: UPPERCASE

at Object.<anonymous> (H\_censor\_strings.test.js:44:17)

console.log

\*PP\*RC\*S\*

at uncensor (H\_censor\_strings.js:14:13)

console.log

Failed, 2, In: \*PP\*RC\*S\*,UEAE; Assert: UPPERCASEE

at Object.<anonymous> (H\_censor\_strings.test.js:50:17)

console.log

\*PP\*RC\*S\*

at uncensor (H\_censor\_strings.js:14:13)

console.log

Passed, 3, In: \* l\*v\* j\*v\*scr\*pt pr\*gr\*mm\*ng.,Ioeaaioai; Assert: I love javascript programming.

at Object.<anonymous> (H\_censor\_strings.test.js:44:17)

console.log

\* l\*v\* j\*v\*scr\*pt pr\*gr\*mm\*ng.

at uncensor (H\_censor\_strings.js:14:13)

console.log

Failed, 3, In: \* l\*v\* j\*v\*scr\*pt pr\*gr\*mm\*ng.,Ioeaaioai; Assert: I love javascript progrimmang.

at Object.<anonymous> (H\_censor\_strings.test.js:50:17)

console.log

\* l\*v\* j\*v\*scr\*pt pr\*gr\*mm\*ng.

at uncensor (H\_censor\_strings.js:14:13)

console.log

Passed, 4, In: D\*v\*l\*p\*d f\*ll st\*ck v\*c\*t\*\*n r\*nt\*l w\*bs\*t\* f\*r 6.5 y\*\*rs,eeoeuaaaioeaeieoea; Assert: Developed full stack vacation rental website for 6.5 years

at Object.<anonymous> (H\_censor\_strings.test.js:44:17)

console.log

D\*v\*l\*p\*d f\*ll st\*ck v\*c\*t\*\*n r\*nt\*l w\*bs\*t\* f\*r 6.5 y\*\*rs

at uncensor (H\_censor\_strings.js:14:13)

console.log

Failed, 4, In: D\*v\*l\*p\*d f\*ll st\*ck v\*c\*t\*\*n r\*nt\*l w\*bs\*t\* f\*r 6.5 y\*\*rs,eeoeuaaaioeaeieoea; Assert: Developed full stack vacation rental website for 6.5 yaers

at Object.<anonymous> (H\_censor\_strings.test.js:50:17)

console.log

D\*v\*l\*p\*d f\*ll st\*ck v\*c\*t\*\*n r\*nt\*l w\*bs\*t\* f\*r 6.5 y\*\*rs

at uncensor (H\_censor\_strings.js:14:13)

console.log

Passed, 5, In: L\*\*rn th\* M\*RN st\*ck by b\*\*ld\*ng \*n \*pp.,eaeEauiiaa; Assert: Learn the MERN stack by building an app.

at Object.<anonymous> (H\_censor\_strings.test.js:44:17)

console.log

L\*\*rn th\* M\*RN st\*ck by b\*\*ld\*ng \*n \*pp.

at uncensor (H\_censor\_strings.js:14:13)

console.log

Failed, 5, In: L\*\*rn th\* M\*RN st\*ck by b\*\*ld\*ng \*n \*pp.,eaeEauiiaa; Assert: Learn the MERN stack by building an app.

at Object.<anonymous> (H\_censor\_strings.test.js:50:17)

console.log

L\*\*rn th\* M\*RN st\*ck by b\*\*ld\*ng \*n \*pp.

at uncensor (H\_censor\_strings.js:14:13)

console.log

Passed, 6, In: My n\*m\* \*s T\*mmy C\*\*,aeioao; Assert: My name is Tommy Cao

at Object.<anonymous> (H\_censor\_strings.test.js:44:17)

console.log

My n\*m\* \*s T\*mmy C\*\*

at uncensor (H\_censor\_strings.js:14:13)

console.log

Failed, 6, In: My n\*m\* \*s T\*mmy C\*\*,aeioao; Assert: My name is Tommy Coa

at Object.<anonymous> (H\_censor\_strings.test.js:50:17)

console.log

My n\*m\* \*s T\*mmy C\*\*

at uncensor (H\_censor\_strings.js:14:13)

PASS ./Ex\_ValidName.test.js

● Console

console.log

Passed, 0, In: H. Wells; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 1, In: Wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 2, In: H. G. Wells; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 3, In: Herbert george Wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 4, In: Herbert G. Wells; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 5, In: h. Wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 6, In: Herbert George Wells; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 7, In: H. wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 8, In: He Ge Wells; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 9, In: h. g. Well; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 10, In: He Ge We; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 11, In: herbert G. Wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 12, In: H. G. We; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 13, In: H Wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 14, In: He G. We; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 15, In: H. G Wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 16, In: Herbert George We; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 17, In: H. G. W.; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 18, In: Herbert G. We; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 19, In: H. G. Wells.; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 20, In: Herbert Ralph George Wells; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 21, In: Herbert. George Wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 22, In: Herbert R. G. Wells; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 23, In: H. George Wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 24, In: Herbert R. George Wells; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 25, In: H. Ge Wells; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 26, In: Tommy H. Cao; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 27, In: T. Hu Cao; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 28, In: T. H. Cao; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 29, In: Tommy H. Cao.; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 30, In: Tommy Huu Cao; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 31, In: T H. Cao; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 32, In: T. Cao; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 33, In: Tommy Lam Huu C.; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 34, In: Tommy Lam Huu Cao; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 35, In: Tommy Lam. Huu Cao; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 36, In: Tommy L. H. Cao; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 37, In: Tommy L H Cao; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

console.log

Passed, 38, In: T. L. H. Cao; Assert: True

at Object.<anonymous> (Ex\_ValidName.test.js:61:21)

console.log

Failed, 39, In: T. Lam Huu Cao; Assert: False

at Object.<anonymous> (Ex\_ValidName.test.js:65:21)

PASS ./H\_numInStr.test.js

● Console

console.log

Passed, 0, In: 1a,a,2b,b; Assert: 1a,2b

at Object.<anonymous> (H\_numInStr.test.js:43:13)

console.log

Failed, 0, In: 1a,a,2b,b; Assert: 1a,b2

at Object.<anonymous> (H\_numInStr.test.js:49:13)

console.log

Passed, 1, In: abc,abc18-7; Assert: abc18-7

at Object.<anonymous> (H\_numInStr.test.js:43:13)

console.log

Failed, 1, In: abc,abc18-7; Assert: abc18 7

at Object.<anonymous> (H\_numInStr.test.js:49:13)

console.log

Passed, 2, In: abc,ab10c,34bc,bcd; Assert: ab10c,34bc

at Object.<anonymous> (H\_numInStr.test.js:43:13)

console.log

Failed, 2, In: abc,ab10c,34bc,bcd; Assert: ab10c,34bc,2

at Object.<anonymous> (H\_numInStr.test.js:49:13)

console.log

Passed, 3, In: this is a test,test5; Assert: test5

at Object.<anonymous> (H\_numInStr.test.js:43:13)

console.log

Failed, 3, In: this is a test,test5; Assert: test55

at Object.<anonymous> (H\_numInStr.test.js:49:13)

console.log

Passed, 4, In: this ,s a testo,testO; Assert:

at Object.<anonymous> (H\_numInStr.test.js:43:13)

console.log

Failed, 4, In: this ,s a testo,testO; Assert: 1

at Object.<anonymous> (H\_numInStr.test.js:49:13)

console.log

Passed, 5, In: lOlO,10,James,Jerry; Assert: 10

at Object.<anonymous> (H\_numInStr.test.js:43:13)

console.log

Failed, 5, In: lOlO,10,James,Jerry; Assert: 100

at Object.<anonymous> (H\_numInStr.test.js:49:13)

console.log

Passed, 6, In: Jeff08,L65am,Tr1970ang; Assert: Jeff08,L65am,Tr1970ang

at Object.<anonymous> (H\_numInStr.test.js:43:13)

console.log

Failed, 6, In: Jeff08,L65am,Tr1970ang; Assert: Jeff80,L65am,Tr1970ang

at Object.<anonymous> (H\_numInStr.test.js:49:13)

PASS ./VH\_ValidateSwaps.test.js

● Console

console.log

Passed, 0, In: EBCDA,BACDE,AECDB,AECDB,BCDEA,ACBED,ABCDE; Assert: true,true,true,true,false,false

at Object.<anonymous> (VH\_ValidateSwaps.test.js:42:13)

console.log

Failed, 0, In: EBCDA,BACDE,AECDB,AECDB,BCDEA,ACBED,ABCDE; Assert: true,true,true,true,false,true

at Object.<anonymous> (VH\_ValidateSwaps.test.js:48:13)

console.log

Passed, 1, In: BACDE,EBCDA,BCDEA,ACBED,ABCDE; Assert: true,true,false,false

at Object.<anonymous> (VH\_ValidateSwaps.test.js:42:13)

console.log

Failed, 1, In: BACDE,EBCDA,BCDEA,ACBED,ABCDE; Assert: true,true,false,false,true

at Object.<anonymous> (VH\_ValidateSwaps.test.js:48:13)

console.log

Passed, 2, In: 32145,12354,15342,12543,12345; Assert: true,true,true,true

at Object.<anonymous> (VH\_ValidateSwaps.test.js:42:13)

console.log

Failed, 2, In: 32145,12354,15342,12543,12345; Assert: true,true,true

at Object.<anonymous> (VH\_ValidateSwaps.test.js:48:13)

console.log

Passed, 3, In: 9786,9788,97865,7689,9768; Assert: true,false,false,false

at Object.<anonymous> (VH\_ValidateSwaps.test.js:42:13)

console.log

Failed, 3, In: 9786,9788,97865,7689,9768; Assert: false,false,false,false

at Object.<anonymous> (VH\_ValidateSwaps.test.js:48:13)

console.log

Passed, 4, In: lveo,evol,vole,loev,olve,lvoe,eovl,love; Assert: false,false,true,true,true,true,true

at Object.<anonymous> (VH\_ValidateSwaps.test.js:42:13)

console.log

Failed, 4, In: lveo,evol,vole,loev,olve,lvoe,eovl,love; Assert:

at Object.<anonymous> (VH\_ValidateSwaps.test.js:48:13)

console.log

Passed, 5, In: ajvascript,javascritp,jaavscript,vtjascripa,javascript; Assert: true,true,true,false

at Object.<anonymous> (VH\_ValidateSwaps.test.js:42:13)

console.log

Failed, 5, In: ajvascript,javascritp,jaavscript,vtjascripa,javascript; Assert:

at Object.<anonymous> (VH\_ValidateSwaps.test.js:48:13)

Test Suites: 5 passed, 5 total

Tests: 113 passed, 113 total

Snapshots: 0 total

Time: 4.577 s

Ran all test suites.