

```

ouzo2:code$ ghci
GHCi, version 8.2.2: http://www.haskell.org/ghc/  :? for help
Loaded GHCi configuration from /Users/hallgren/.ghci
Prelude> :l WorkingWithLists.hs
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> null []
True
*Main> null [1,2,3]
False
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> [1,2,3]++[4,5,6]
[1,2,3,4,5,6]
*Main> "abc"++"def"
"abcdef"
*Main> :t null
null :: [a] -> Bool
*Main> :t ++
<interactive>:1:1: error: parse error on input '++'
*Main> :t (++)
(++) :: [a] -> [a] -> [a]
*Main> (++) "abc" "def"
"abcdef"
*Main> [1..10]
[1,2,3,4,5,6,7,8,9,10]
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> snoc "abc" 'd'
"abcd"
*Main> reverse [1..100]
[100,99,98,97,96,95,94,93,92,91,90,89,88,87,86,85,84,83,82,81,80,79,78,77,76,75,
74,73,72,71,70,69,68,67,66,65,64,63,62,61,60,59,58,57,56,55,54,53,52,51,50,49,48
,47,46,45,44,43,42,41,40,39,38,37,36,35,34,33,32,31,30,29,28,27,26,25,24,23,22,2
1,20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1]
*Main> reverse [1..1000]
[1000,999,998,997,996,995,994,993,992,991,990,989,988,987,986,985,984,983,982,98
1,980,979,978,977,976,975,974,973,972,971,970,969,968,967,966,965,964,963,962,96
1,960,959,958,957,956,955,954,953,952,951,950,949,948,947,946,945,944,943,942,94
1,940,939,938,937,936,935,934,933,932,931,930,929,928,927,926,925,924,923,922,92
1,920,919,918,917,916,915,914,913,912,911,910,909,908,907,906,905,904,903,902,90
1,900,899,898,897,896,895,894,893,892,891,890,889,888,887,886,885,884,883,882,88
1,880,879,878,877,876,875,874,873,872,871,870,869,868,867,866,865,864,863,862,86
1,860,859,858,857,856,855,854,853,852,851,850,849,848,847,846,845,844,843,842,84
1,840,839,838,837,836,835,834,833,832,831,830,829,828,827,826,825,824,823,822,82
1,820,819,818,817,816,815,814,813,812,811,810,809,808,807,806,805,804,803,802,80
1,800,799,798,797,796,795,794,793,792,791,790,789,788,787,786,785,784,783,782,78
1,780,779,778,777,776,775,774,773,772,771,770,769,768,767,766,765,764,763,762,76
1,760,759,758,757,756,755,754,753,752,751,750,749,748,747,746,745,744,743,742,74
1,740,739,738,737,736,735,734,733,732,731,730,729,728,727,726,725,724,723,722,72
1,720,719,718,717,716,715,714,713,712,711,710,709,708,707,706,705,704,703,702,70

```

1,700,699,698,697,696,695,694,693,692,691,690,689,688,687,686,685,684,683,682,681,680,679,678,677,676,675,674,673,672,671,670,669,668,667,666,665,664,663,662,661,660,659,658,657,656,655,654,653,652,651,650,649,648,647,646,645,644,643,642,641,640,639,638,637,636,635,634,633,632,631,630,629,628,627,626,625,624,623,622,621,620,619,618,617,616,615,614,613,612,611,610,609,608,607,606,605,604,603,602,601,600,599,598,597,596,595,594,593,592,591,590,589,588,587,586,585,584,583,582,581,580,579,578,577,576,575,574,573,572,571,570,569,568,567,566,565,564,563,562,561,560,559,558,557,556,555,554,553,552,551,550,549,548,547,546,545,544,543,542,541,540,539,538,537,536,535,534,533,532,531,530,529,528,527,526,525,524,523,522,521,520,519,518,517,516,515,514,513,512,511,510,509,508,507,506,505,504,503,502,501,500,499,498,497,496,495,494,493,492,491,490,489,488,487,486,485,484,483,482,481,480,479,478,477,476,475,474,473,472,471,470,469,468,467,466,465,464,463,462,461,460,459,458,457,456,455,454,453,452,451,450,449,448,447,446,445,444,443,442,441,440,439,438,437,436,435,434,433,432,431,430,429,428,427,426,425,424,423,422,421,420,419,418,417,416,415,414,413,412,411,410,409,408,407,406,405,404,403,402,401,400,399,398,397,396,395,394,393,392,391,390,389,388,387,386,385,384,383,382,381,380,379,378,377,376,375,374,373,372,371,370,369,368,367,366,365,364,363,362,361,360,359,358,357,356,355,354,353,352,351,350,349,348,347,346,345,344,343,342,341,340,339,338,337,336,335,334,333,332,331,330,329,328,327,326,325,324,323,322,321,320,319,318,317,316,315,314,313,312,311,310,309,308,307,306,305,304,303,302,301,300,299,298,297,296,295,294,293,292,291,290,289,288,287,286,285,284,283,282,281,280,279,278,277,276,275,274,273,272,271,270,269,268,267,266,265,264,263,262,261,260,259,258,257,256,255,254,253,252,251,250,249,248,247,246,245,244,243,242,241,240,239,238,237,236,235,234,233,232,231,230,229,228,227,226,225,224,223,222,221,220,219,218,217,216,215,214,213,212,211,210,209,208,207,206,205,204,203,202,201,200,199,198,197,196,195,194,193,192,191,190,189,188,187,186,185,184,183,182,181,180,179,178,177,176,175,174,173,172,171,170,169,168,167,166,165,164,163,162,161,160,159,158,157,156,155,154,153,152,151,150,149,148,147,146,145,144,143,142,141,140,139,138,137,136,135,134,133,132,131,130,129,128,127,126,125,124,123,122,121,120,119,118,117,116,115,114,113,112,111,110,109,108,107,106,105,104,103,102,101,100,99,98,97,96,95,94,93,92,91,90,89,88,87,86,85,84,83,82,81,80,79,78,77,76,75,74,73,72,71,70,69,68,67,66,65,64,63,62,61,60,59,58,57,56,55,54,53,52,51,50,49,48,47,46,45,44,43,42,41,40,39,38,37,36,35,34,33,32,31,30,29,28,27,26,25,24,23,22,21,20,19,18,17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1]

```
*Main> sum (reverse [1..1000])
```

```
500500
```

```
*Main> sum (reverse [1..10000])
```

```
50005000
```

```
*Main> sum ([1..10000])
```

```
50005000
```

```
*Main> :set +s
```

```
*Main> sum ([1..10000])
```

```
50005000
```

```
(0.01 secs, 1,675,896 bytes)
```

```
*Main> sum (reverse [1..10000])
```

```
50005000
```

```
(6.77 secs, 8,760,046,488 bytes)
```

```
*Main> Prelude.take 5 [10..20]
```

```
[10,11,12,13,14]
```

```
(0.01 secs, 76,368 bytes)
```

```
*Main> Prelude.take 0 [10..20]
```

```
[]
```

```
(0.01 secs, 60,080 bytes)
```

```
*Main> Prelude.take 100 [10..20]
```

```

[10,11,12,13,14,15,16,17,18,19,20]
(0.01 secs, 84,712 bytes)
*Main> Prelude.take (-1) [10..20]
[]
(0.01 secs, 60,224 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> take 0 [1..10]
[]
(0.01 secs, 64,232 bytes)
*Main> take 5 [1..10]
[1,2,3,4,5]
(0.00 secs, 69,312 bytes)
*Main> take 20 [1..10]
[1,2,3,4,5,6,7,8,9,10]
(0.01 secs, 78,136 bytes)
*Main> take (-2) [1..10]
[1,2,3,4,5,6,7,8,9,10]
(0.01 secs, 82,560 bytes)
*Main> Prelude.take (-2) [1..10]
[]
(0.01 secs, 64,336 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> quickCheck prop_take
*** Failed! Falsifiable (after 2 tests and 1 shrink):
-1
[]
(0.09 secs, 272,136 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> quickCheck prop_take
+++ OK, passed 100 tests.
(0.01 secs, 5,613,544 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> drop 3 "abcdef"
"def"
(0.00 secs, 64,728 bytes)
*Main> drop 0 "abcdef"
"abcdef"
(0.00 secs, 64,248 bytes)
*Main> drop (-1) "abcdef"
"abcdef"
(0.00 secs, 68,432 bytes)
*Main> drop 10 "abcdef"
""
(0.00 secs, 65,216 bytes)
*Main> drop 6 "abcdef"
""

```

```

(0.00 secs, 61,280 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> quickCheck prop_take_drop
+++ OK, passed 100 tests.
(0.01 secs, 2,922,104 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> quickCheck no
noShrinking      nonprop_take_drop  not                notElem
*Main> quickCheck nonprop_take_drop
+++ OK, passed 100 tests.
(0.01 secs, 2,997,384 bytes)
*Main> prop_take_drop 5 "abcdefg"
True
(0.00 secs, 67,264 bytes)
*Main> nonprop_take_drop 5 "abcdefg"
False
(0.00 secs, 65,392 bytes)
*Main> veCheck nonprop_take_drop
vector            verboseCheck          verboseCheckWith
vectorOf          verboseCheckAll      verboseCheckWithResult
verbose           verboseCheckResult
*Main> verboseCheck nonprop_take_drop
Passed:
0
[]

Passed:
-1
[()]

Passed:
-2
[]

Passed:
2
[(),()]

Passed:
-1
[(),(),()]

Passed:
-1
[]

Passed:
1
[(),(),(),(),(),()]

```

Passed:

7

[(), (), ()]

Passed:

5

[(), (), (), (), (), ()]

Passed:

-9

[(), (), (), (), (), (), (), (), (), ()]

Passed:

-3

[(), (), (), (), (), (), ()]

Passed:

5

[()]

Passed:

-7

[(), (), (), (), (), (), (), (), (), (), ()]

Passed:

10

[(), (), (), (), (), (), (), (), (), (), (), (), (), ()]

Passed:

7

[(), ()]

Passed:

15

[(), (), (), (), (), (), (), (), (), (), (), (), (), (), ()]

Passed:

13

[(), (), (), (), (), (), (), (), (), ()]

Passed:

2

[(), (), (), (), (), (), (), (), (), (), (), (), (), (), (), (), ()]

Passed:

-2

[(), (), (), (), (), (), (), (), (), (), (), (), (), (), (), (), ()]

Passed:

-7

[(), (), ()]

Passed:

-8


```
-XNoEmptyDataDecls          -XNoExplicitNamespaces
-XNoExistentialQuantification -XNoExtendedDefaultRules
*Main> :set -XNoEx
-XNoExistentialQuantification -XNoExplicitNamespaces
-XNoExplicitForAll           -XNoExtendedDefaultRules
*Main> :set -XNoExtendedDefaultRules
*Main> quickCheck nonprop_take_drop
```

<interactive>:52:1: **error:**

- Ambiguous type variable 'a0' arising from a use of 'quickCheck' prevents the constraint '(Arbitrary a0)' from being solved.
Probable fix: use a type annotation to specify what 'a0' should be.
These potential instances exist:
 - instance (Arbitrary a, Arbitrary b) => Arbitrary (Either a b)
-- Defined in 'Test.QuickCheck.Arbitrary'
 - instance Arbitrary Ordering
-- Defined in 'Test.QuickCheck.Arbitrary'
 - instance Arbitrary Integer
-- Defined in 'Test.QuickCheck.Arbitrary'
 - ...plus 19 others
 - ...plus 62 instances involving out-of-scope types
(use -fprint-potential-instances to see them all)
- In the expression: quickCheck nonprop_take_drop
In an equation for 'it': it = quickCheck nonprop_take_drop

<interactive>:52:12: **error:**

- Ambiguous type variable 'a0' arising from a use of 'nonprop_take_drop' prevents the constraint '(Eq a0)' from being solved.
Probable fix: use a type annotation to specify what 'a0' should be.
These potential instances exist:
 - instance (Eq b, Eq a) => Eq (Either a b)
-- Defined in 'Data.Either'
 - instance Eq Ordering -- Defined in 'GHC.Classes'
 - instance Eq Integer
-- Defined in 'integer-gmp-1.0.1.0:GHC.Integer.Type'
 - ...plus 23 others
 - ...plus 80 instances involving out-of-scope types
(use -fprint-potential-instances to see them all)
- In the first argument of 'quickCheck', namely 'nonprop_take_drop'
In the expression: quickCheck nonprop_take_drop
In an equation for 'it': it = quickCheck nonprop_take_drop

(0.02 secs,)

```
*Main> :r
```

```
[1 of 1] Compiling Main ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
```

```
*Main> quickCheck nonprop_take_drop
```

```
*** Failed! Falsifiable (after 4 tests and 3 shrinks):
```

```
1
```

```
[0,1]
```

```
(0.01 secs, 690,776 bytes)
```

```
*Main> quickCheck prop_take_drop
```

```
+++ OK, passed 100 tests.
```

```
(0.01 secs, 5,747,424 bytes)
```

```
*Main> :r
```

```

[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> quickCheck nonprop_take_drop
*** Failed! Falsifiable (after 14 tests and 7 shrinks):
1
[True,False]
(0.01 secs, 1,147,048 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> zip [1..10] [21..30]
[(1,21.3)]
(0.01 secs, 73,192 bytes)
*Main> zip [1..10] [21..30]
[(1,21),(2,22),(3,23),(4,24),(5,25),(6,26),(7,27),(8,28),(9,29),(10,30)]
(0.01 secs, 115,152 bytes)
*Main> zip [1..10] [21..25]
[(1,21),(2,22),(3,23),(4,24),(5,25)]
(0.01 secs, 89,656 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> zip [1..10] [21..25]
[(1,21),(2,22),(3,23),(4,24),(5,25)]
(0.01 secs, 90,024 bytes)
*Main> unzip (zip [1..10] [21..25])
([1,2,3,4,5],[21,22,23,24,25])
(0.01 secs, 86,720 bytes)
*Main> unzip (zip [1..10] [21..30])
([1,2,3,4,5,6,7,8,9,10],[21,22,23,24,25,26,27,28,29,30])
(0.01 secs, 108,400 bytes)
*Main> :t fst
fst :: (a, b) -> a
*Main> :t snd
snd :: (a, b) -> b
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )

```

```

WorkingWithLists.hs:81:32: error:
    parse error on input '='
    Perhaps you need a 'let' in a 'do' block?
    e.g. 'let x = 5' instead of 'x = 5'

```

```

81 | prop_zip_unzip xys = zip xs ys = xys
    ^

```

Failed, no modules loaded.

```

Prelude> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> quickCheck prop
prop_take          prop_take_drop  prop_zip_unzip  properFraction  property

```

```
*Main> quickCheck prop_zip_unzip
```

```
<interactive>:71:1: error:
```

- Ambiguous type variable 'a0' arising from a use of 'quickCheck' prevents the constraint '(Arbitrary a0)' from being solved.
Probable fix: use a type annotation to specify what 'a0' should be.
These potential instances exist:
 - instance (Arbitrary a, Arbitrary b) => Arbitrary (Either a b)
-- Defined in 'Test.QuickCheck.Arbitrary'
 - instance Arbitrary Ordering
-- Defined in 'Test.QuickCheck.Arbitrary'
 - instance Arbitrary Integer
-- Defined in 'Test.QuickCheck.Arbitrary'
 - ...plus 19 others
 - ...plus 62 instances involving out-of-scope types
(use -fprint-potential-instances to see them all)
- In the expression: quickCheck prop_zip_unzip
In an equation for 'it': it = quickCheck prop_zip_unzip

```
<interactive>:71:12: error:
```

- Ambiguous type variable 'a0' arising from a use of 'prop_zip_unzip' prevents the constraint '(Eq a0)' from being solved.
Probable fix: use a type annotation to specify what 'a0' should be.
These potential instances exist:
 - instance (Eq b, Eq a) => Eq (Either a b)
-- Defined in 'Data.Either'
 - instance Eq Ordering -- Defined in 'GHC.Classes'
 - instance Eq Integer
-- Defined in 'integer-gmp-1.0.1.0:GHC.Integer.Type'
 - ...plus 23 others
 - ...plus 80 instances involving out-of-scope types
(use -fprint-potential-instances to see them all)
- In the first argument of 'quickCheck', namely 'prop_zip_unzip'
In the expression: quickCheck prop_zip_unzip
In an equation for 'it': it = quickCheck prop_zip_unzip

```
(0.02 secs,)
```

```
*Main> :t prop_zip_unzip
```

```
prop_zip_unzip :: (Num a, Eq a) => [(a, a)] -> Bool
```

```
*Main> :r
```

```
[1 of 1] Compiling Main ( WorkingWithLists.hs, interpreted )
```

```
Ok, one module loaded.
```

```
*Main> :t prop_zip_unzip
```

```
prop_zip_unzip :: [(Bool, Int)] -> Bool
```

```
*Main> quickCheck prop_zip_unzip
```

```
+++ OK, passed 100 tests.
```

```
(0.02 secs, 8,741,528 bytes)
```

```
*Main> :R
```

```
unknown command ':R'
```

```
use :? for help.
```

```
*Main> :r
```

```
[1 of 1] Compiling Main ( WorkingWithLists.hs, interpreted )
```

```
Ok, one module loaded.
```

```
*Main> :t prop_unzip_zip
```

```
prop_unzip_zip :: (Eq a1, Eq a2) => [a1] -> [a2] -> Bool
```

```

*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> quickCheck prop_unzip_zip
+++ OK, passed 100 tests.
(0.01 secs, 8,325,688 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> qsort "Haskell"
"Haeklls"
(0.01 secs, 78,896 bytes)
*Main> qsort [100,99..1]
[1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100]
(0.02 secs, 2,543,232 bytes)
*Main> qsort [100]
[100]
(0.01 secs, 65,120 bytes)
*Main> qsort [100,5,9]
[5,9,100]
(0.01 secs, 71,736 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> quickCheck prop_qsort
+++ OK, passed 100 tests.
(0.03 secs, 15,083,848 bytes)
*Main> quickCheck prop_qsort
+++ OK, passed 100 tests.
(0.03 secs, 19,632,040 bytes)
*Main> :r
[1 of 1] Compiling Main                ( WorkingWithLists.hs, interpreted )
Ok, one module loaded.
*Main> quickCheck prop_insert

```

<interactive>:90:1: **error:**

- Ambiguous type variable 'a0' arising from a use of 'quickCheck' prevents the constraint '(Arbitrary a0)' from being solved. Probable fix: use a type annotation to specify what 'a0' should be. These potential instances exist:
 - instance (Arbitrary a, Arbitrary b) => Arbitrary (Either a b)
 - Defined in 'Test.QuickCheck.Arbitrary'
 - instance Arbitrary Ordering
 - Defined in 'Test.QuickCheck.Arbitrary'
 - instance Arbitrary Integer
 - Defined in 'Test.QuickCheck.Arbitrary'
 - ...plus 19 others
 - ...plus 62 instances involving out-of-scope types (use -fprint-potential-instances to see them all)
- In the expression: quickCheck prop_insert
 - In an equation for 'it': it = quickCheck prop_insert

<interactive>:90:12: error:

- Ambiguous type variable 'a0' arising from a use of 'prop_insert' prevents the constraint '(Ord a0)' from being solved.
Probable fix: use a type annotation to specify what 'a0' should be.
These potential instances exist:
instance (Ord b, Ord a) => Ord (Either a b)
-- Defined in 'Data.Either'
instance Ord Ordering -- Defined in 'GHC.Classes'
instance Ord Integer
-- Defined in 'integer-gmp-1.0.1.0:GHC.Integer.Type'
...plus 23 others
...plus 96 instances involving out-of-scope types
(use -fprint-potential-instances to see them all)
- In the first argument of 'quickCheck', namely 'prop_insert'
In the expression: quickCheck prop_insert
In an equation for 'it': it = quickCheck prop_insert

(0.02 secs,)

*Main> :r

[1 of 1] Compiling Main (WorkingWithLists.hs, interpreted)

Ok, one module loaded.

*Main> quickCheck prop_insert

*** Failed! Falsifiable (after 5 tests and 2 shrinks):

0

[1,0]

(0.01 secs, 470,488 bytes)

*Main> :r

[1 of 1] Compiling Main (WorkingWithLists.hs, interpreted)

WorkingWithLists.hs:108:20: error:

- Couldn't match expected type 'Bool' with actual type 'Property'
- In the expression: isSorted xs ==> isSorted (insert x xs)
In an equation for 'prop_insert':
prop_insert x xs = isSorted xs ==> isSorted (insert x xs)

```
108 | prop_insert x xs = isSorted xs ==> isSorted (insert x xs)
      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

Failed, no modules loaded.

Prelude> :r

[1 of 1] Compiling Main (WorkingWithLists.hs, interpreted)

Ok, one module loaded.

*Main> :t prop_insert

prop_insert :: Ord a => a -> [a] -> Property

*Main> :r

[1 of 1] Compiling Main (WorkingWithLists.hs, interpreted)

Ok, one module loaded.

*Main> quickCheck prop_insert

*** Gave up! Passed only 72 tests.

(0.04 secs, 25,422,792 bytes)

*Main> stdArgs

Args {replay = Nothing, maxSuccess = 100, maxDiscardRatio = 10, maxSize = 100, c
hatty = True, maxShrinks = 9223372036854775807}

(0.00 secs, 124,720 bytes)

*Main> qu stdArgs

```
quickCheck          quickCheckWith      quotRem
quickCheckAll       quickCheckWithResult
quickCheckResult    quot
*Main> quickCheck stdArgs{maxDiscardRatio =100} prop_insert
```

<interactive>:99:1: **error:**

- Couldn't match expected type '(Int -> [Int] -> Property) -> t' with actual type 'IO ()'
- The function 'quickCheck' is applied to two arguments, but its type 'Args -> IO ()' has only one
In the expression:
quickCheck stdArgs {maxDiscardRatio = 100} prop_insert
In an equation for 'it':
it = quickCheck stdArgs {maxDiscardRatio = 100} prop_insert
- Relevant bindings include it :: t (bound at <interactive>:99:1)

(0.01 secs,)

```
*Main> quickCheckWith stdArgs{maxDiscardRatio =100} prop_insert
```

+++ OK, passed 100 tests.

(0.07 secs, 54,207,888 bytes)

```
*Main> :t sh
```

show	showString	shrink1	shrinkList	shrinkRealFrac
showChar	shows	shrink2	shrinkMap	shrinkState
showList	showsPrec	shrinkInit	shrinkMapBy	shrinking
showParen	shrink	shrinkIntegral	shrinkNothing	shuffle

```
*Main> :t shrink
```

```
shrink :: Arbitrary a => a -> [a]
```

```
*Main> shrink 52
```

<interactive>:102:1: **error:**

- Ambiguous type variable 'a0' arising from a use of 'print' prevents the constraint '(Show a0)' from being solved.
Probable fix: use a type annotation to specify what 'a0' should be.
These potential instances exist:
instance [safe] Show Args -- Defined in 'Test.QuickCheck.Test'
instance [safe] Show Result -- Defined in 'Test.QuickCheck.Test'
instance (Show b, Show a) => Show (Either a b)
-- Defined in 'Data.Either'
...plus 25 others
...plus 115 instances involving out-of-scope types
(use -fprint-potential-instances to see them all)
- In a stmt of an interactive GHCi command: print it

(0.01 secs,)

```
*Main> shrink (52::Int)
```

```
[0,26,39,46,49,51]
```

(0.00 secs, 76,280 bytes)

```
*Main> :r
```

```
[1 of 1] Compiling Main ( WorkingWithLists.hs, interpreted )
```

WorkingWithLists.hs:53:23: **error:**

- Couldn't match expected type 'Bool' with actual type 'Property'
- In the expression:
classify
(n <= 0 || n > length xs) "extreme" (take n xs ++ drop n xs == xs)
In an equation for 'prop_take_drop':

