Happy Number (/problems/happy-number/)

Submission Detail

401 / 401 test cases passed.

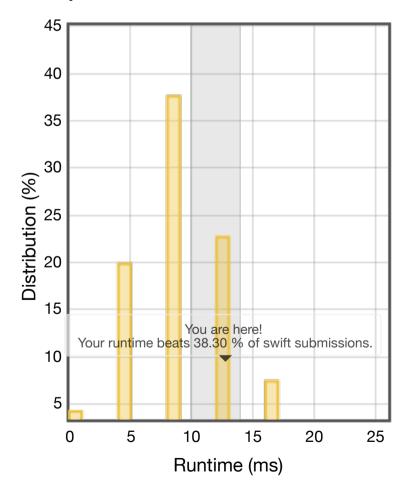
Runtime: 12 ms

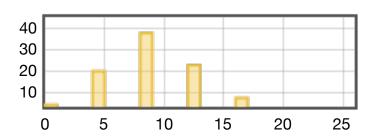
Memory Usage: 21 MB

Status: Accepted

Submitted: 0 minutes ago

Accepted Solutions Runtime Distribution





swift

Accepted Solutions Memory Distribution

Sorry. We do not have enough accepted submissions to show distribution chart.

Invite friends to challenge **Happy Number**

60

Submitted Code: 0 minutes ago

Language: swift

Edit Code

```
123456789101112131415161718192021
1
       22232425262728293031323334353
       63738394041424344454647484950
       51525354555657585960616263646
       56667686970class Solution {
         func isHappy(_ n: Int) ->
                     //return
       Bool {
       isHappy00(n)
                            return
       isHappyProcedural(n)
           func isHappy00(_ n: Int)
       -> Bool {
                         quard n != 1
       else { return true }
              let generator =
       HappyNumberGenerator
       (initialValue: n)
                                 var
                                while
       number: Int? = n
       number != nil {
       number = generator
       .nextUniqueNumber()
         //print(number ?? "nil")
            }
                     return
       generator.isHappy
        func isHappyProcedural(_ n:
       Int) -> Bool {
       precondition(n >= 0)
              var value = n
       //print(value)
       computedValues: Set<Int> = []
```

```
while (value !
= 1 && !computedValues
.contains(value)) {
 computedValues.insert(value
            value = value
.sumfOfDigitsSquared
  //print(value)
    return value == 1
}}class HappyNumberGenerator
    private var
{
computedValues: Set<Int>
private var currentValue: Int
      init(initialValue: Int
          currentValue =
initialValue
computedValues = []
  func nextUniqueNumber() ->
Int? {
             currentValue =
currentValue
.sumfOfDigitsSquared
if computedValues.contains
(currentValue) {
                 } else {
return nil
        computedValues
.insert(currentValue)
    return currentValue
 }
      }
               var isHappy:
Bool {
             return
computedValues.contains(1)
}}extension Int {
sumfOfDigitsSquared: Int {
    let numberAsString =
String(self)
                   var
result = 0
                 for char in
numberAsString {
result += Int(pow(Float
(String(char))!,2))
                          }
      return result
```

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