

# Skip Iterators

hasNext() and next()

skip(val)

skip the next element == val.

2 3 5 6 5 7 5 -1 5 10

next → 2

skip(5) → remember

next → 3

next → 6

next → 5

skip(5)

skip(5)

next → 7

next → -1

next → 10

HashMap

{ 5: 1 }

val: skip Count

⇒ Use cursor to point to the element that subsequent next call must return -

⇒ Care should be taken while advancing cursor to skip values as required.

hasNext()  
check cursor

next()  
cache cursor  
seek()

skip(val)  
if cursor == val  
// pointing to val.  
seek()  
else  
store to HashMap

seek()  
clear cursor  
while( iter.hasNext() )  
ele ← iter.next()  
if ! skipMap.containsKey(ele)  
cursor ← ele, break  
else  
update map