# Java Iterables

SequentialSearchST.java in Princeton

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\* Returns all keys in the symbol table as an <tt>Iterable</tt>.

\* To iterate over all of the keys in the symbol table named <tt>st</tt>,

\* use the foreach notation: <tt>for (Key key : st.keys())</tt>.

\* **@return** all keys in the sybol table as an <tt>Iterable</tt>

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**public** Iterable<Key> keys() {

Queue<Key> queue = **new** Queue<Key>();

**for** (Node x = first; x != **null**; x = x.next)

queue.enqueue(x.key);

**return** queue;

}

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\* Unit tests the <tt>SequentialSearchST</tt> data type.

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**public** **static** **void** main(String[] args) {

SequentialSearchST<String, Integer> st = **new** SequentialSearchST<String, Integer>();

String[] st1 = **new** String[] {"Doug", "Craig", "Brad", "Egor"};

**for** (**int** i = 0; i < 4; i++) {

String key = st1[i];

st.put(key, i);

}

**for** (String s : st.keys())

System.***out***.println(s + " " + st.get(s));

}