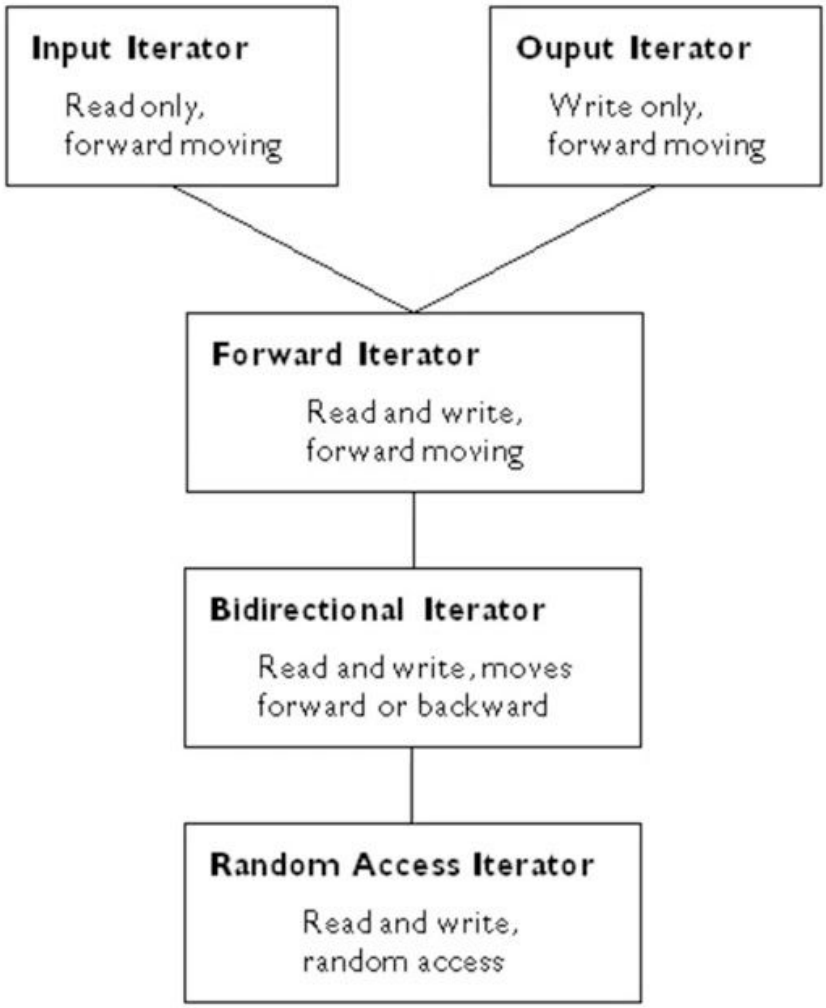
<table>
<tr><th colspan="5">Iterator category</th><th>Defined operations</th></tr>
<tr><td rowspan="5">ContiguousIterator</td><td rowspan="5">RandomAccessIterator</td><td rowspan="4">BidirectionalIterator</td><td rowspan="3">ForwardIterator</td><td>InputIterator</td><td>• read
• increment (without multiple passes)</td></tr>
<tr><td rowspan="2"></td><td>• increment (with multiple passes)</td></tr>
<tr><td>• decrement</td></tr>
<tr><td colspan="2"></td><td>• random access</td></tr>
<tr><td colspan="3"></td><td>• contiguous storage</td></tr>
<tr><td colspan="6">Iterators that fall into one of the above categories and also meet the requirements of OutputIterator are called mutable iterators.</td></tr>
<tr><td>OutputIterator</td><td colspan="4"></td><td>• write
• increment (without multiple passes)</td></tr>
</table>


Input Iterator
Read only,
forward moving
Ouput Iterator
Write only,
forward moving
Forward Iterator
Read and write,
forward moving
Bidirectional Iterator
Read and write, moves
forward or backward
Random Access Iterator
Read and write,
random access

Iterators