

Iterator Categories

Category	Ability	Providers	Operations
Input	reads forward	<i>istream</i>	<i>v=*i</i> <i>++i, i++</i> <i>i->m</i> <i>i1==i2, i1!=i2</i> ctor
Output	writes forward	<i>ostream</i>	<i>*i=v</i> <i>++i, i++</i> ctor
Forward	reads & writes forward		<i>*i</i> <i>++i, i++</i> <i>i->m</i> <i>i1==i2, i1!=i2</i> dctor, ctor
Bidirectional	reads & writes forward & backward	<i>list, map</i>	<i>*i</i> <i>++i, --i, i++, i--</i> <i>i->m</i> <i>i1==i2, i1!=i2</i> dctor, ctor
Random access	reads & writes with random access	<i>vector,</i> <i>string,</i> C array	<i>*i, i[n]</i> <i>++i, --i, i++, i--</i> <i>i->m</i> <i>i1==i2, i1!=i2</i> <i>i1<i2, i1>i2, i1<=i2, i1>=i2, i1-i2</i> <i>i+=n, i-=n, i+n, n+i</i> dctor, ctor