**Q1)**

Because the iterator returned from end does not denote an element, it may not be incremented or dereferenced.

**Q2)**

**Function to Ternary Search**

int ternarySearch(int l, int r, int key, int ar[])

{

if (r >= l)

int mid1 = l + (r - l) / 3;

int mid2 = r - (r - l) / 3;

if (ar[mid1] == key) {

return mid1;

}

if (ar[mid2] == key) {

return mid2;

}

if (key < ar[mid1]) {

return ternarySearch(l, mid1 - 1, key, ar);

}

else if (key > ar[mid2]) {

return ternarySearch(mid2 + 1, r, key, ar);

}

else {

return ternarySearch(mid1 + 1, mid2 - 1, key, ar);

}

}

return -1;

}