Reasoning Table for dequeueTwo

```
void dequeueTwo(QueueOfT& q, T& y, T& z);
//! updates q
//! replaces y, z
//! requires    |q| > 1
//! ensures    q = #q[2,|#q|) and <y> is prefix #q and <z> is prefix #q[1,|#q|)
```

State	Code	Assume	Confirm
		SOF: q0 > 1	q0 /= <>
0			
	q.dequeue(y);		
1		S1F: $$ is prefix of q0 and $q1 = q0[1, q0)$	q1 /= <>
	q.dequeue(z);		
2		S2F: $\langle z2 \rangle$ is prefix of q1 and $q2 = q1[1, q1)$ and $y2 = y1$	q2 = q0[2, q0) and <y2> is prefix q0 and <z2> is prefix q0[1, q0)</z2></y2>

VCs (Verification Conditions):

- 1) $|q0| > 1 \rightarrow q0 /= <>$
- 2) |q0| > 1 and $\langle y1 \rangle$ is prefix of q0 and $q1 = q0[1, |q0|) \rightarrow q1 /= <>$
- 3) |q0| > 1 and <y1> is prefix of q0 and q1 = q0[1, |q0|) and <z2> is prefix of q1 and q2 = q1[1, |q1|) and y2 = y1 $\rightarrow q2 = q0[2, |q0|)$ and <y2> is prefix q0 and <z2> is prefix q0[1, |q0|)

VCs: using SxFs

- 1. S1F \rightarrow q0 /= <>
- 2. S1F $^{\circ}$ S2F \rightarrow q1 /= <>
- 3. S1F $^{\circ}$ S2F $^{\circ}$ S3F \rightarrow q2 = q0[2,|q0|) and $^{\circ}$ y2> is prefix q0 and $^{\circ}$ z2> is prefix q0[1,|q0|)