Name:		Email PID:	_
Question	Suppose that a hash table currently looks like:		

status index content 0 full 87 1 vacant 2 vacant 3 13 full 4 full 44 5 vacant 6 full 76 7 full 56 8 full 10 9 vacant 10 vacant

Suppose that the hashing scheme that's being used hashes the key value **42** to the home slot 6.

If the collision resolution strategy is quadratic probing, what slot will 42 wind up in?

Quadratic probing uses the probe sequence ($HomeIndex + k^2$) mod TableSize.

Since the table size is 11 and the home index is 6, the relevant slots would be: 6, 7, 10

Since slot 10 is empty, that is where 42 would be stored.