

Two sample test functions, main functions have been provided, one commented out.

The commented out function works exactly like the example in assignment problem and should be fairly easy to figure out.

The other main function (one which has not been commented out) generates random numbers, 1 to 1000 for set A and 1001 to 2000 for set B, and creates the two sets. Note that the size of the two sets remain relatively small even after several iterations as we can add an element to the preexisting set only if all its elements are either smaller or larger than it. Then Merge merges the two sets, A and B.

To create a custom test case, generate the sets A and B like:

```
for(int i=2;i<=500;i++)  
    T=Merge(T,MakeSingleton(i));
```

and merge them as:

```
struct Node* V=Merge(T,U);
```

To print the set A, use

```
Extract(A);
```