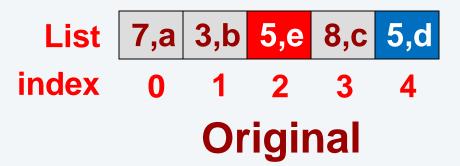
## Comparison Sorting: Executive Summary

Sandra Batista, Mark Redekopp, and David Kempe

- A sort is stable if the order of equal items in the original list is maintained in the sorted list
  - Good for searching with multiple criteria







```
void bsort(vector<int> mylist)
{
   int i ;
   for(i=mylist.size()-1; i > 0; i--) {
      for(j=0; j < i; j++) {
        if(mylist[j] > mylist[j+1]) {
            swap(j, j+1)
      }   }
}
```





```
void ssort(vector<int> mylist)
{
    for(i=0; i < mylist.size()-1; i++) {
        int min = i;
        for(j=i+1; j < mylist.size; j++) {
            if(mylist[j] < mylist[min]) {
                min = j
            }
        swap(mylist[i], mylist[min])
} </pre>
```





```
void isort(vector<int> mylist)
{    for(int i=1; i < mylist.size(); i++) {
        int val = mylist[i];
        hole = i
        while(hole > 0 && val < mylist[hole-1]) {
            mylist[hole] = mylist[hole-1];
            hole--;
        }
        mylist[hole] = val; }
}</pre>
```

