

Selection sort is one of the simplest algorithms for sorting arrays or vectors. It is rather inefficient, but it is effective for small data sets.

The following code implements a selection sort on an STL vector of PostNet objects, assuming that each PostNet object can return an integer value based on the zip code.

```
// selection sort based on zip code order
void sort(vector<PostNet>& c)
{
    for (unsigned short i=0; i<c.size(); i++)
    {
        // look for smallest zip code in remaining elements
        long min = c[i].getNumericZip();
        unsigned short min_i = i;
        for (unsigned short j=i+1; j<c.size(); j++)
        {
            if (c[j].getNumericZip() < min)
            {
                min = c[j].getNumericZip();
                min_i = j;
            }
        }
        // move the object with the smallest zip code
        // to the front of the remaining elements
        if (min_i != i)
        {
            PostNet tmp = c[i];
            c[i] = c[min_i];
            c[min_i] = tmp;
        }
    }
}
```

If you are using an array of objects, rather than an STL vector, add a size parameter and correct the stopping conditions for both loops.

Assuming that you are storing zip codes as character strings, the following method will convert zip codes to equivalent integers:

```
long PostNet::getNumericZip()
{
    return  (zipcode[0]-'0')*10000
          + (zipcode[1]-'0')*1000
          + (zipcode[2]-'0')*100
          + (zipcode[3]-'0')*10
          + (zipcode[4]-'0');
}
```