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// Algorithms 1 and 4 from Weiss, DSAAC++
textbook;
// computing of maximal subsum of a vector of
positive and
// negative values;
#include <iostream>
#include <vector>
#include "MaxSubSum.h"
int max_sub_sum_alg1(const vector<int>& vec,
int& ops)
{
    int maxsum = 0;
    ops = 0;
    for (int i = 0; i < vec.size(); i++)</pre>
        for (int j = 0; j < vec.size(); j++)</pre>
             int localsum = 0;
             for (int k = i; k <= j; k++)</pre>
                 localsum += vec[k];
                 ops++;
             }
             if (localsum > maxsum)
                 maxsum = localsum;
    return maxsum;
```

```
int max_sub_sum_alg4(const vector<int>& vec,
int& ops)
{
   int maxsum = 0;
   int localsum = 0;
   ops = 0;

   for (int i = 0; i < vec.size(); i++)
   {
      localsum += vec[i];
      ops++;

      if (localsum > maxsum)
            maxsum = localsum;
      else if (localsum < 0)
            localsum = 0;
   }
   return maxsum;
}</pre>
```