```
#include<iostream>
#include<iomanip>
#include "question4.hpp"
#include "question6.hpp"
std::ostream& operator<<(std::ostream& os, boost::numeric::ublas::matrix<int> mat) { // Fonction permettant l'impression d'une matrice
     int rows = mat.sizel(),
          cols = mat.size2();
     for(int row = 0 ; row < rows ; ++row) {
   for(int col = 0 ; col < cols ; ++col) {
      if(col == 0) {</pre>
                    if(row == 0) {
    os << "[ ";
                    } else if(row == rows - 1) {
                         os << "L ";
                    } else {
                         os << "| ";
                    }
               }
               os << std::setw(4) << mat(row, col) << " ";
               if(col == cols - 1) {
                    if(row == 0) {
    os << "]" << std::endl;
                    } else if(row == rows - 1) {
                         os << "]" << std::endl;
                    } else {
                         os << "|" << std::endl;
                    }
               }
         }
    }
     return os;
}
template<typename T>
std::ostream& operator<<(std::ostream& os, std::vector<T> vec) {
     int vecSize = vec.size();
      for(int i = 0 ; i < vecSize ; ++i) {
        if(i == 0) {
    os << "(";
} else if(i == vecSize - 1) {
    os << "(";
}</pre>
          } else {
               os << "|";
          }
          os << vec[i];
          if(i == 0) {
    os << "\" << std::endl;
          } else if(i == vecSize - 1) {
               os << "/" << std::endl;
          } else {
               os << "|" << std::endl;
          }
     }
     return os;
int main(int argc, char const* argv[]) {
     std::vector<std::tuple<int, int>> carnet(10);
     carnet[0] = std::tuple<int, int>{20, 25};
carnet[1] = std::tuple<int, int>{20, 25};
carnet[2] = std::tuple<int, int>{70, 65};
     carnet[3] = std::tuple<int, int>{10, 15};
     carnet[4] = std::tuple<int, int>{10, 5};
     carnet[5] = std::tuple<int, int>{10, 35};
carnet[6] = std::tuple<int, int>{10, 15};
carnet[7] = std::tuple<int, int>{80, 75};
carnet[8] = std::tuple<int, int>{10, 15};
     carnet[9] = std::tuple<int, int>{40, 15};
     boost::numeric::ublas::matrix<int> dynaMat = question4::allonsY(carnet, 100);
     std::vector<int> spots = question6::computeSpots(dynaMat);
     //std::cout << dynaMat << std::endl
                 //<< spots << std::endl << std::endl;</pre>
     // Question 7
     std::cout << "Sous-ensemble de spots de gain total maximum :" << std::endl</pre>
                 << spots << std::endl
<< "Gain total maximum :" << std::endl</pre>
```

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