

```
WHAT DOES C++ MEAN
                                      ()
While deleting pointers:
                                      6 10 8 + 9
                                      12 16 x + y
Delete [] a represents deleting
                                      043 + 41
array a.
                                      18 22 11 + 50
Delete [] a[1] represents deleting
                                      Solution:
                                      //Could also use const std::vector<char>& for opens/closes. Need std::string for input
Whatever is a[1] points to.
                                      void PrintParses(const std::vector<std::string>& opens, const std::vector<std::string>& closes,
                                                       const std::vector<std::string>& input,
Delete a only deletes first value in
                                                       const std::vector<std::vector<unsigned int> >& parses){
                                          for(unsigned int i=0; i<opens.size(); i++){
array a.
                                              std::cout << opens[i] << " " << closes[i] << std::endl;
                                              for(unsigned int j=0; j<parses[i].size(); j+=2){
                                                   std::cout << parses[i][j] << " " << parses[i][j+1];
                                                   for(unsigned int k=parses[i][j]+1; k<parses[i][j+1]; k++){
                                                       std::cout << " " << input[k];
                                                  }
  c[2][0] = 'R';
                                                  std::cout << std::endl;
                           Solution
                                                                                       STAUL
  (*a)[0] = NULL;
  (*b)[2][1] = 'P';
  c[1] = NULL;
  *(d[1]) = 'I';
  d[0] = NULL;
  // CREATE
                                char*** a = new char**;
  // MEMORY
                                char***b = a;
  // DIAGRAM
                                *b = new char*[3];
                                char** c = (*b);
  delete [] (*a)[2];
                                c[2] = new char[2];
  delete b:
                                                                                    d
                                char* d[2]:
  delete [] c;
                                d[1] = new char;
  delete d[1];
                                                                                                                 harry 30
                                                                                                                                    [35-39]
                                                         Solution:
Solution:
class Customer {
                                                           // open the file
                                                           std::ifstream istr("hw1_scores.txt");
public:
                                                           assert (istr.good());
  // CONSTRUCTOR
                                                           // variables to parse the file & store the data
  Customer(const std::string& name);
                                                           std::string name:
  // ACCESSORS
                                                           int score;
  const std::string& getName() const;
                                                           std::vector<std::string> > histogram;
  const std::string& getStylist() const;
                                                           // read the file
  const Date& lastAppointment() const;
                                                           while (istr >> name >> score) {
  int numAppointments() const;
                                                             int bucket = score / 5;
  // MODIFIERS
                                                             for (int i = histogram.size(); i <= bucket; ++i) {</pre>
  void hairCut(const Date &d,const std::string &styli:
                                                               // add additional buckets if needed
private:
                                                               histogram.push_back(std::vector<std::string>());
  // REPRESENTATION
  std::string customer_name;
                                                             // insert this student into the correct bucket
  std::string preferred_stylist;
                                                             histogram[bucket].push_back(name);
  std::vector<Date> appointments;
};
                                                         Next, write code to output the data stored in the vector to std::cout as shown above.
// helper function for sorting
                                                         Solution:
bool stylist_then_last_appointment(const Customer &c1
                                                           // loop over all of the buckets
.h file 里 private 用来声明 class 里可使用的 member variables for (int i = 0; i < histogram.size(); i++) {
                                                             // print the bucket range
                                                             std::cout << "[" << std::setw(2) << i*5 << "-" << std::setw(2) << (i+1)*5-1 << "]";
.cpp file 里的 Class::Class(){}初始化, 把东西赋值给
                                                             for (int j = 0; j < histogram[i].size(); ++j) {</pre>
                                                               // print the names
Private 里的的变量供 class 来使用
                                                              std::cout << " " << histogram[i][j];
                                                             std::cout << std::endl;
```