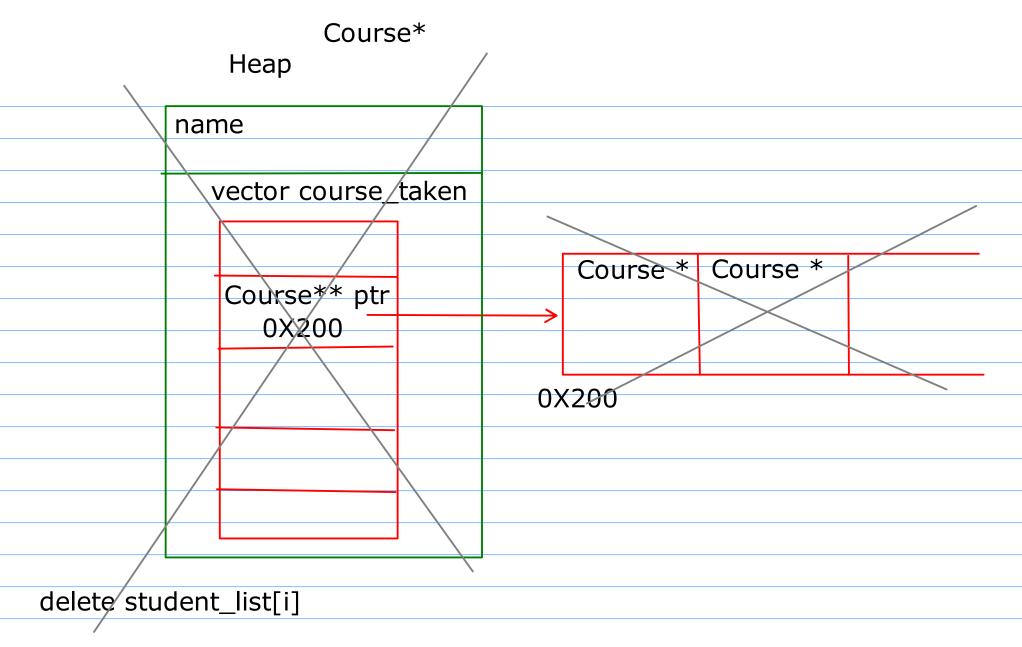
```
divsion(int n,int d){
Exception Handling
                                               throw 1.2;
     - try, catch, throw
    2 hrs
                                          try{
                                          division();
                                          multiplication();
                                          catch(double){
                                          }
 STL -> Standard Template Library
    - It is a library that consists of all the template functions and template classes
    - It has 4 components
    1. Container ->
    2. Algorithm ->
    3. Functors (Function Objects)
    4. Iterators
   # Container
         - It is a data structure template classes that are used to store the data
         - Types of Containers
         1. Sequence Containers -> vector
         2. Associative Containers -> set, map
         3. Unordered Associative Containers -> set, map
         4. Sequence Adapter Containers -> stack, queue
     vector<Employee *> v1;
     itr = v1.begin();
                                                    itertor itr{
    vector<Employee>
                                                    int *ptr;
     vector::iterator<Employee>
                                                    iterator(double *ptr)
     vector<Employee*>::iterator;
     non of the above
  class Course{
                                  class Student{
                                  int rollno;
  int cid;
  string course_name;
                                  string name;
                                  vector<Courses *> course taken;
  double fees;
                                  }
                            vector<Student *> student_list;
                            vector<Courses *> courses_list;
```



FILE IO
Copy Ctor (Deep and Shallow)
Operator Overloading
nested and local class
singleton design pattern
factory design pattern
Smart pointers