



```
1 /*
 2 * Institution.h
 3 *
 4 * Definition: An institution object that contains all relavent informatin
 5 *
                 related to the instiution
 6 *
 7 * Created on: March 2019
8 * Author: Curtis Lui
9
10 */
11
12 #include <string>
13 #include "Student.h"
14 #include "Node.h"
15
16 using namespace std;
18 const int MAX_NUM_STUDENTS = 40000;
20 class Institution
21 {
22
    private:
23
      string name;
24
      string mailAddress;
25
      string regOffEmail;
26
      string regOffPhonenum;
27
28
      Node<Student> *T0ptr;
29
      Node<Student> *FROMptr;
      Node<Student> *studentTable[MAX_NUM_STUDENTS];
30
31
32
      unsigned int numTransIn;
33
      unsigned int numTransOut;
34 }; // End of Institution
```

```
1 /*
 2 * Student.h
 3 *
 4 * Definition: A student object that contains all relavent information
 5 *
                  related to a student
 6 *
7 * Created on: March 2019
8 * Author: Curtis Lui
9 *
10 */
11
12 #include <string>
13
14 using namespace std;
15
16 class Student
17 {
18
    private:
      string lastName;
19
20
      string firstName;
21
      string mailAddress;
22
      string email;
      string phoneNumber;
23
24
      string homeInstitution;
25
      string studentNumhome;
26
      string transInstitution;
27
      string applyFaculty;
28
      string applyProgram;
29
30 }; // End of Student
```