```
Singly Linked List using Unique pointer
                                                       class slist1 {
class node {
public:
                                                       public:
 //Write all public functions below
                                                         //Write all public functions below
                                                       private:
private:
                                                         std::unique_ptr<node> first_;
 T data_;
                                                         //YOU CAN ADD ANY OTHER DATA MEMBERS
 std::unique_ptr<node> next_;
                                                         //For full grade both append and prepend MUST be O(1)
 //YOU CANNOT ADD ANY DATA MEMBERS
 //You can have any number of private functions here
                                                         //You can have any number of private functions here
                                1 \rightarrow 5 \rightarrow 27 \rightarrow NULL
               first_
              You can
                                                 slist1 s;
              have private
                                      1. s.append(T n) (Must be THETA(1))
     MUST USE ONLY
                                      2. s.prepend(T n) (Must be THETA(1))
     std::unique_ptr for memory
                                      3. cout 1->2->3->4->5->6->7->Null
            allocation
                                      4. s[i] if i < 0 or i > list size return NULL
                                      5. bool find(T n)
                                        bool remove(T n) if cannot remove, return false
      Must handle extremelly
                                      7. slist1 s1(s) and s1 = s2;
       large list
                                     8. (s1 == s2) and (s1 != s2)
                                     9. Conversion function. if (s)
                                      10. int n = size(s)
```