## DSAP Homework 6 手寫

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## 第一題

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(a) Linked Sorted List Linked Sorted List: operator +
      ( const Linked Sorted List & another list )
       Linked Sorted List result;
       Node * left = this -> listPtri;
      Node * right = anotherlist , list Ptr ;
      Node + curcpy = nullptr;
      if (cmp (left, right))
         curcpy = new Node (left -> getIten());
         left = left > getNext();
      else
          currepy = new Node (right > get Item(1);
        right = right -> getNext();
      result. listPtr = curcpy;
      while (! (left == nullptr and right == nullptr))
         if (imp(left, right))
            curcpy -> set Next ( new Mode ( left -> get Itan () ) );
            left = left -> get Next();
        else
             curcpy > setNext ( new Node ( right > get Item () ) ;
          right = right > getNext();

curcpy = curcpy > getNext();
```

bool cmp (Node\* (, Node \* r) or r== nullptr) return true; return false;

```
(h)
     void display (Queue alueue)
        if (allueue. is Empty ()) return;
       while (1)
         cout (( a Queue, peekfront ();
         adrene, dequevel);
         if (adueue. is Empty1)) return;
         cout ( ",";
    void deque: addfront (int new Entry)
      Node + new Node Ptr = new Node (new Entry)
      of (13 Empty(1)) backPtr = newNodePtr;
     else
       new NodePtr > set Next (front Ptr);
     frontPtr = new NodePtr;
```

```
(d)
       void deque: remove_back()
         if (32mpty()) return;
            Node * prev = frontitr;
            if (! prev-) getNext() == backPtr) prev = prev. getNext();
            delete hadotr;
           backetr = prev;
```