## 浙江大学 2019 - 2020 学年夏学期

《C程序设计专题》课程期末考试答题卷

课程号: \_\_211Z0050\_\_, 开课学院: \_计算机学院\_\_

考试试卷: √A卷、B卷(请在选定项上打√)

考试形式: √闭、开卷 (请在选定项上打√), 允许带 /入场

考试日期: 2020 年 09 月 08 日, 考试时间: 120 分钟

试题号	1	1	111	四	总分	
满分	20	30	30	20	· 心力	
得分					统分人 1	
阅卷人					统分人2	

Section 1: Single Choice(2 marks for each item, total 20 marks)

Section 2: Read the following problems and answer questions (5 marks for each item, total 30 marks)

- 1. (1) The program may exit abnormally.
  - (2) void (\*p)(int, int (\*)[10]);
- 2. 332123321
- 3. 0->1->3->5->6->7->9->10->14->23->34->44->59->70
- 4. 100
- 5. Flash a circle drawn in the center of a window once every 500 milliseconds. The ESCAPE key is used as a switch to toggle the blink.
- 6. W0T#W0U#W0V#X0T#X0U#X0V#Y0T#Y0U#Y0V#

## Section 3: According to the specification, complete each program (2 marks for each blank, total 30 marks)

(1)	char *, int	(2)	SwitchingCenter *, char *	
(3)	int	(4)	SwitchingCenter	
(5)	(Queue*)malloc(sizeof(Queue))	(6)	p=q->front; p!=q->rear; p=p->next, length++	
(7)	NULL	(8)	q->rear=temp	
(9)	q->front->next	(10)	stackADT	
(11)	NewStack	(12)	char *	
(13)	PushStack	(14)	TopStack	
(15)	PopStack	_		

Section 4: Algorithms design (10 marks for each item, total 20 marks)

```
void FractalTree(int n, double x, double y, double length, double
theta) {
      if (n > 0) {
            double radians = theta / 180.0 * PI;
            int dx = length * cos(radians);
            int dy = length * sin(radians);
            MovePen(x, y);
            DrawLine(dx, dy);
            FractalTree(n-1, x+dx, y+dy, length*0.75, theta + 15);
            FractalTree(n-1, x+dx, y+dy, length*0.75, theta - 15)
      }
}
void Main() {
      int n;
      double length;
      InitGraphics();
      OpenConsole();
      n = GetInteger();
      length = GetReal();
      CloseConsole();
      FractalTree(n, GetWindowWidth()/2.0, 0, length, 90);
      return;
}
```

```
void RearrangeList(LinkList h){
    if(!h) return;
    ListNode *p = h;
    int even = 0:
    LinkList temp = CreateNode(0);
    ListNode *pt = temp;
    ListNode *r = NULL;
    while(p){
         if(even){
              pt->next = p;
              pt = p;
              r->next = p->next;
         }else{
              r = p;
         p = p->next;
         even = 1 - even;
    pt->next = NULL;
    r->next = temp->next;
}
```