浙江理工大学 2017—2018 学年第 2 学期

《C#程序设计》期末试卷(A)卷标准答案和评分标准

一、单选题(本大题共32分,每小题2分)

1	2	3	4	5
D	С	С	В	С
6	7	8	9	10
С	A	В	A	С
11	12	13	14	15
A	A	С	С	A
16				
В				

二、程序设计题(共68分)

```
(1)
    class Employee
        public string Name { get; set; }
        public DateTime Birthday { get; set; }
        public double Salary { get; set; }
        public override string ToString()
            return string. Format ("{0}: Salary={1}, Birthday={2}", Name, Salary, Birthday);
(2)
        private static List<Employee> FindEmployee(Employee[] ps, EmployeePredicate t)
            List<Employee> results = new List<Employee>();
            foreach (Employee p in ps)
                if (t(p))
                    results. Add(p);
            return results;
(3)
        private static bool FilterBySalary(Employee emp)
            return emp.Salary >= 7000;
```

```
(4)
            List<Employee> high = FindEmployee(employees, FilterBySalary);
            foreach(Employee emp in high)
                 Console. WriteLine (emp);
(5)
    public static class MyExtensions
        public static bool IsEighties(this DateTime d)
            return d. Year > 1979 && d. Year < 1980;
(6)
            List < Employee > eighties = Find Employee (employees, p => p. Birthday. Is Eighties ());
            foreach(Employee emp in eighties)
                 Console. WriteLine (emp);
(7)
            var eighties2 = from emp in employees
                             where emp. Birthday. IsEighties() == true
                             orderby emp. Salary descending
                             select emp;
            foreach (Employee emp in eighties2)
                 Console. WriteLine (emp);
2,
    class Employee : IComparable < Employee >
        public string Name { get; set; }
        public DateTime Birthday { get; set; }
        public double Salary { get; set; }
        public override string ToString()
            return string. Format ("{0}: Salary={1}, Birthday={2}", Name, Salary, Birthday);
        public int CompareTo(Employee emp)
            return (int) (Salary - emp. Salary);
    class EmployeeComparer : IComparer < Employee>
        public int Sort { get; set; }
        public EmployeeComparer(int sort)
            Sort = sort;
        public int Compare(Employee e1, Employee e2)
            switch(Sort)
                 case 0:
                     return (int) (el. Salary - el. Salary);
                 case 1:
                     return el. Name. CompareTo (e2. Name);
```

```
default:
                    return el. Birthday. CompareTo (e2. Birthday);
        }
    }
3
    enum Position
        Inside, On, Outside
    class Circle
        public int X { get; set; }
        public int Y { get; set; }
        public int Radius { get; set; }
        public Position Contains(int x, int y)
            double dist = Math. Sqrt((X - x) * (X - x) + (Y - y) * (Y - y));
            if (dist < Radius)</pre>
                 return Position. Inside;
            else if (dist == Radius)
                return Position.On;
                return Position.Outside;
        }
        public List<Circle> Mirrors(int axis)//0
            List<Circle> circles = new List<Circle>();
            switch (axis)
             {
                 case 0:
                     circles.Add(Mirror(true));
                     circles. Add (Mirror (false));
                     circles. Add (Mirror (true). Mirror (false));
                     break:
                 case 1:
                     circles. Add (Mirror (true));
                     break;
                case 2:
                     circles.Add(Mirror(false));
                     break;
            return circles;
        public Circle Mirror(bool xAxis)
            if (xAxis)
                return new Circle { X = X, Y = -Y, Radius = Radius };
                return new Circle { X = -X, Y = Y, Radius = Radius };
        }
    }
```