实验7 一维数组

编写一个航班预定系统。要求程序必须为公司唯一的一架飞机（10个座位）的每一次飞行分配座位，程序先显示如下界面：

Please type 1 for “first class”

Please type 2 for “economy”

如果用户键入1，那么程序将为他再first class区（座位号是1到5）分配一个座位；如果用户键入2，那么程序将为他再economy区（座位号是6到10）分配一个座位。然后程序将打印出显示有座位号和舱区的登机牌。

使用一个单下标数组来表示飞机座位分布图。数组的所有元素被初始化为0，以表示座位是空的。一旦座位被分配出去，相应的数组元素将被设置成1表示该座位不可再分配。一个座位不能分配两次。

当first class满座之后，程序将询问乘客是否愿意调到economy区（反之亦然）。如果乘客愿意，则为他分配一个适当到座位，否则打印信息” Next flight leaves in 3 hours”.

程序运行结果：

Please type 1 for "first class"

Please type 2 for "economy"

? 1

Your seat assignment is 1

Please type 1 for "first class"

Please type 2 for "economy"

? 2

Your seat assignment is 6

Please type 1 for "first class"

Please type 2 for "economy"

? 1

Your seat assignment is 2

Please type 1 for "first class"

Please type 2 for "economy"

? 2

Your seat assignment is 7

Please type 1 for "first class"

Please type 2 for "economy"

? 2

Your seat assignment is 8

Please type 1 for "first class"

Please type 2 for "economy"

? 2

Your seat assignment is 9

Please type 1 for "first class"

Please type 2 for "economy"

? 2

Your seat assignment is 10

Please type 1 for "first class"

Please type 2 for "economy"

? 2

The economy section is full.

Would you like to sit in first class section ( Y or N )? y

Your seat assignment is 3

Please type 1 for "first class"

Please type 2 for "economy"

? 2

The economy section is full.

Would you like to sit in first class section ( Y or N )? n

Next flight leaves in 3 hours.

Please type 1 for "first class"

Please type 2 for "economy"

?