Key to Practice Test #4 – CMPS 161

1. a.) long [] hairs = new long[30]
b.) int [] pages = new int[100000]
c.) float [] price = new float[275]
d.) char grade
e.) String [] address = new String[50]
f.) char [] emp_mi = new char[200]
g.) int [] votes = new int[1992-1952+1]

(Note that you could have chosen any reasonable name for variable or array names, but types and dimension sizes are what is important.)

2. a.) char [] vowels = {'A', 'E', 'I', 'O', 'U', 'Y'}; or char [] vowels = new char[]{'A','E','I','O','U','Y'};
b.) String[] dayNames = {“Sunday”, “Monday”, “Tuesday”, “Wednesday”, “Thursday”, “Friday”, “Saturday”}; or
String[] dayNames = new
String[]{“Sunday”,“Monday”,“Tuesday”,“Wednesday”,“Thursday”,“Friday”,“Saturday”};
c.) int [] daysInMonth = {31, 29, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31}; or
int [] daysInMonth = new int[]{31, 29, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};

3. a.) computer_bought[450] or computer_bought[449]
d.) num_comps[ computer_bought[75] ] or num_comps[ computer_bought[74] ]

(Note that you should have given all the answers in the first column, or all the answers in the second, but not some answers from the first column and other answers from the second.)

4. AFTER MANIPULATION: YTISREVINU ANAISIUOL NRETSAEHTUOS

5. a.) while (!found && (currentEmp < numEmps))
{   found = (targetId == empId[currentEmp]);
    currentEmp++;
}
b.) empHourly[8]
c.) empId and empHourly. They are parallel arrays because the corresponding elements of each of them describe the same entity, an employee in this case. For example, empId[10] and empHourly[10] are the identification number and hourly payrate for the 10th employee.
void hiss(char [] unhissed, char [] hissed)
{
    int unhissPos = 0, hissPos = 0;
    while (unhissed[unhissPos] != ' ')
    {
        if (unhissed[unhissPos] == 's')
        {
            hissed[hissPos] = 's';
            hissPos++;
        }
        hissed[hissPos] = unhissed[unhissPos];
        hissPos++;
        unhissPos++;
    }
    hissed[hissPos] = ' ';
}