

## Review C-STRINGS

**1.** One of the following 4 fragments of code is incorrect. Which one? Why?

```
// A
char *ptr = "Tom";
```

```
// B
char *ptr;
ptr = "Tom";
```

```
// C
char name[10] = "Tom";
```

```
// D
char name[10];
name = "Tom";
```

**2.** What would be printed from the following code fragment?

```
char str[] = "tomorrow ";
char s1[20] = "is today";
char s2[20] = "another day";
char s3[50];
char *ptr;
```

```
cout << sizeof( char );    // 1
cout << sizeof( int );     // 4
cout << sizeof( char * );  // 4
cout << sizeof( int * );   // 4
```

```
cout << sizeof( str );     //
cout << strlen( str );     //
cout << sizeof( s1 );      //
cout << strlen( s1 );      //
cout << s1 + 3;            //
```

```
ptr = s1 + 3;
cout << *ptr;              //
cout << ptr;               //
cout << sizeof( *ptr );    //
cout << sizeof( ptr );     //
cout << ptr[-2];           //
```

```
strcpy(s3, str);
strcat(s3, "is ");
strcat(s3, s2);
cout << s3;                //
```

```
ptr = strchr(str, 'o');
cout << *ptr;              //
cout << ptr;               //
```

```
ptr = strrchr(str, 'r');
cout << ptr;               //
```