Coding Convention Guidelines

	Rule	Should	Should not
Naming Convention	Rule #1.0: Use	int price, tax, total;	int x, y, z;
	meaningful names	void sum();	void f();
	Rule #1.1: Use Camel	float grade, TotalPriceWithTax;	float GRADE, totalpricewithtax;
	Case for variable,	struct SalePerson { };	struct SALEPERSON { };
	struct, function names		
	Rule #1.2: Use All	const int TAX_RATE = 10.0;	const int TaxRate = 10.0;
	Upper Case with		
	underscores for		
	constant names		
Statement Convention	Rule #2.0: Write easy-	x = a + b - c * d;	x=a+b-c*d; for(int i=0;i <n;i++);< th=""></n;i++);<>
	to-read statements	for (int i = 0; i < n; i++);	
	Rule #2.1: Write one	int a;	int a; float b;
	statement on one line	float b;	if (a > 10) b = 5;
		if (a > 10)	
		b = 5;	
	Rule #2.2: Group	a = 5;	a = 5;
	related statements in	b = 6;	b = 6;
	paragraph		if (a > b)
		if (a > b)	max = a;
		max = a;	
	Rule #2.3: Indent	if (a[j] > a[i])	if (a[j] > a[i])
	statement blocks	{	{
		int temp = a[i];	int temp = a[i];
		a[i] = a[j];	a[i] = a[j];
		a[j] = temp;	a[j] = temp;
		}	}
	Rule #2.4: Split long		
	function (> 10		
	statements) into		
	smaller ones		<u> </u>
Comment Convention	Rule #3.0: Explain		
	code with		
	comprehensive		
	comments	// This function sum	int sum/int a int b) []
	Rule #3.1: Explain	// This function sum up	int sum(int a, int b) { }
	each function with comments	// two input integers int sum(int a, int b) { }	
			may - (a > b) 2 a . b.
	Rule #3.2: Comment	// Find max between a and b max = (a > b) ? a : b;	max = (a > b) ? a : b;
	to complex if/loops/expressions		for (int i = 0; i < n; i++)
	when possible	// Calculate x^n	S = S * X;
	wileli hossinia	for (int i = 0; i < n; i++)	3-3 A,
		S = S * X;	
) - 3 A,	

Practice

Find and correct what do not follow the Coding Convention Guidelines in the code below:

```
01: #include <stdio.h>
02: #define maxarray 100
03:
04: void read_sort_array(int a[], int &n)
05: {
06:
     printf("Enter number of elements = ");
     scanf("%d", &n);
07:
08:
     for (int i = 0; i < n; i++)
09:
10:
     printf("Enter element [%d] = ", i);
11:
     scanf("%d", &a[i]);
12:
13:
     for(int i = 0;i < n - 1; i++)</pre>
14:
           for(int j = i + 1; j < n; j++)
15:
                 if (a[j] < a[i])</pre>
16:
17:
                       int temp = a[i];
18:
                       a[i] = a[j];
19:
                       a[j] = temp;
20:
                 }
21: }
22:
23: void f(int a[], int n)
24: {
     printf("Elements of array:\n");
25:
     for(int i=0;i<n;i++) printf("%d ", a[i]);</pre>
26:
27: }
28: void main()
29: {
30: int a[maxarray]; int n;
31: read sort array(a, n);
32: f(a, n);
33: }
```