

```

#include <stdio.h>
#include <stdlib.h>

#define MAX_CUSTOMERS 100

typedef struct {
    int id;
    int age;
    float income;
    float spending_score;
} Customer;

void analyze(Customer customers[], int n) {
    float total_income = 0, total_score = 0;
    for (int i = 0; i < n; i++) {
        total_income += customers[i].income;
        total_score += customers[i].spending_score;
    }

    float avg_income = total_income / n;
    float avg_score = total_score / n;

    printf("\n--- Analysis Result ---\n");
    printf("Average Income: %.2f\n", avg_income);
    printf("Average Spending Score: %.2f\n", avg_score);

    printf("\nCustomer Segments:\n");
    for (int i = 0; i < n; i++) {
        printf("Customer %d: ", customers[i].id);
        if (customers[i].income > avg_income &&
            customers[i].spending_score > avg_score)
            printf("High-value\n");
        else if (customers[i].income < avg_income &&
            customers[i].spending_score > avg_score)
            printf("Value-seeker\n");
        else
            printf("Others\n");
    }
}

```

```
int main() {
    Customer customers[MAX_CUSTOMERS];
    int n;

    printf("Enter number of customers: ");
    scanf("%d", &n);

    for (int i = 0; i < n; i++) {
        customers[i].id = i + 1;
        printf("Enter details for Customer %d:\n", i + 1);
        printf("Age: ");
        scanf("%d", &customers[i].age);
        printf("Annual Income: ");
        scanf("%f", &customers[i].income);
        printf("Spending Score (1-100): ");
        scanf("%f", &customers[i].spending_score);
    }

    analyze(customers, n);
    return 0;
}
```

```
Enter number of customers: 3
Enter details for Customer 1:
Age: 5
Annual Income: 25000
Spending Score (1-100): 5
Enter details for Customer 2:
Age: 19
Annual Income: 30000
Spending Score (1-100): 50
Enter details for Customer 3:
Age: 20
Annual Income: 40000
Spending Score (1-100): 75
```

```
--- Analysis Result ---
```

```
Average Income: 31666.67
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Average Spending Score: 43.33
```

```
Customer Segments:
```

```
Customer 1: Others
```

```
Customer 2: Value-seeker
```

```
Customer 3: High-value
```

```
=== Code Execution Successful ===
```