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Age Group	Number of People
0-10	10
11-20	15
21-30	25
31-40	20
41-50	15
51-60	10
61-70	5
71-80	5
81-90	5
91-100	5

A horizontal sequence of 20 small rectangular boxes. The first box contains a vertical bar. The second box contains a vertical bar. The third box contains a vertical bar. The fourth box contains a vertical bar. The fifth box contains a vertical bar. The sixth box contains a vertical bar. The seventh box contains a vertical bar. The eighth box contains a vertical bar. The ninth box contains a vertical bar. The tenth box contains a vertical bar. The eleventh box contains a vertical bar. The twelfth box contains a vertical bar. The thirteenth box contains a vertical bar. The fourteenth box contains a vertical bar. The fifteenth box contains a vertical bar. The sixteenth box contains a vertical bar. The seventeenth box contains a vertical bar. The eighteenth box contains a vertical bar. The nineteenth box contains a vertical bar. The twentieth box contains a vertical bar.

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A horizontal sequence of 20 small rectangular boxes. From left to right, they contain: two empty boxes, one box with '1', one empty box, one box with '2', one empty box, one box with '3', one empty box, one box with '4', one empty box, one box with '5', one empty box, one box with '6', one empty box, one box with '7', one empty box, one box with '8', one empty box, one box with '9', one empty box, one box with '10', one empty box, one box with '11', one empty box, one box with '12', one empty box, one box with '13', one empty box, one box with '14', one empty box, one box with '15', one empty box, one box with '16', one empty box, one box with '17', one empty box, one box with '18', one empty box, one box with '19', one empty box, one box with '20'.

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一、实验目的

1. 掌握 C 语言中数组的定义、声明和初始化方法。
 2. 理解数组在内存中的存储方式，以及数组名与地址的关系。
 3. 能够编写程序对数组进行遍历、查找、排序等基本操作。

4. 了解多维数组的定义和使用，掌握字符串数组的表示方法。
 5. 通过实验加深对指针与数组关系的理解。

二、实验环境
 1. 操作系统：Windows 10
 2. 开发工具：Visual Studio 2019
 3. 编译器：Microsoft C++ Compiler

三、实验内容
 1. 一维数组的定义与初始化

2. 二维数组的定义与初始化
 3. 字符串数组的定义与使用

4. 数组的遍历与查找
 5. 数组的排序

6. 指针与数组
 7. 多维数组

8. 字符串处理函数
 9. 数组的内存管理

10. 实验总结

