

```
main.c* x
HW8 (全局范围)
1 #define _CRT_SECURE_NO_WARNINGS
2 #include <stdio.h>
3 // ...
151
152 void swap(int* A, int* B);
153
154 void bubble(int arr[], int n)
155 {
156     int i = 0;
157     for (i = 0; i < n; i++)
158     {
159         int j = 0;
160         for (j = 0; j < n - i - 1; j++)
161         {
162             swap(&arr[j], &arr[j + 1]);
163         }
164     }
165 }
166
167 void swap(int* A, int* B)
168 {
169     if (*A > *B)
170     {
171         *A = *A ^ *B;
172         *B = *A ^ *B;
173         *A = *A ^ *B;
174     }
175 }
176
177 int main()
178 {
179     int a, b;
180     int arr[10] = { 0 };
181     printf("Enter 10 numbers:");
182     int i = 0;
183     for (i = 0; i < 10; i++)
184     {
185         scanf("%d", &arr[i]);
186     }
187     bubble(arr, sizeof(arr) / sizeof(arr[0]));
188
189     printf("Ascending order :");
190     for (i = 0; i < 10; i++)
191     {
192         printf("%d ", arr[i]);
193     }
194     printf("\nMedian:%d", (arr[4] + arr[5]) / 2);
195
196
197
198
199     return 0;
200 }
```

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Microsoft Visual Studio 调试控制台
Enter 10 numbers:3 19 1 4 11 20 15 8 23 21
Ascending order :1 3 4 8 11 15 19 20 21 23
Median:13
D:\Electrical Engineering\Electrical Engineering\2023? 2??\????????(??)\Lab&HW\HW8\HW8\x64\Debug\HW8.exe (进程 18112) 已退出, 代码为 0。
按任意键关闭此窗口。 . .
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```
197 const int arr[18] = {
198     20 * 60 + 45, 22 * 60 + 38, 15 * 60 + 45, 17 * 60 + 55, 12 * 60 + 47, 15 * 60 + 8, 10 * 60 + 16,
199     11 * 60 + 19, 13 * 60 + 35, 9 * 60 + 43, 13 * 60 + 32, 14 * 60 + 18, 8 * 60 + 19, 60, 23 * 60 + 20
200 }; //Sort by shortest time
201 int check_flight(int desired_dept_time, int desired_arr_time, int* departure_time, int* arrival_time)
202 {
203     int i = 0;
204     for (i = 0; i < 15; i += 2)
205     {
206         if (arr[i] >= desired_dept_time && arr[i + 1] <= desired_arr_time)
207             return i;
208     }
209 }
210 int main()
211 {
212     int dh, dm, ah, am;
213     int desired_dept_time, desired_arr_time, departure_time, arrival_time;
214     printf("Enter a departure time (24-hour): ");
215     scanf("%d:%d", &dh, &dm);
216     printf("Enter an arrival time (24-hour): ");
217     scanf("%d:%d", &ah, &am);
218     desired_dept_time = dh * 60 + dm;
219     desired_arr_time = ah * 60 + am;
220
221     int i = check_flight(desired_dept_time, desired_arr_time, &departure_time, &arrival_time);
222 }
```

```
220
221     int i = check_flight(desired_dept_time, desired_arr_time, &departure_time, &arrival_time);
222
223     printf("Flight times:\n");
224     printf("Departure time Arrival time\n");
225
226     if (arr[i] >= 12 * 60)
227     {
228         printf("      %d:%dpm", arr[i] / 60 - 12, arr[i] % 60);
229     }
230     else
231     {
232         printf("      %d:%dam", arr[i] / 60, arr[i] % 60);
233     }
234     if (arr[i + 1] >= 12 * 60)
235     {
236         printf("      %d:%dpm", arr[i + 1] / 60 - 12, arr[i + 1] % 60);
237     }
238     else
239     {
240         printf("      %d:%dam", arr[i + 1] / 60, arr[i + 1] % 60);
241     }
242
243     return 0;
244 }
245
246 // ...
```

```
Microsoft Visual Studio 调试控制台
Enter a departure time (24-hour): 12:15
Enter an arrival time (24-hour): 18:00
Flight times:
Departure time      Arrival time
3:45pm             5:55pm
D:\Electrical Engineering\Electrical Engineering\2023? ???\????????(??)\Lab&HW\HW8\HW8\x64\Debug\HW8.exe (进程 16460) 已退出, 代码为 0.
按任意键关闭此窗口. . .
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```
stdio.h  main.c  X
HW8 (全局范围) coun(const char * message, char * chs, int i, int j)

1  #define _CRT_SECURE_NO_WARNINGS
2  #include <stdio.h>
3  // ...
245
246 int coun(const char* message, char* chs, int i, int j);
247 void count_occurrence(const char* message, char* chs);
248
249 int main()
250 {
251     char chs[5] = "";
252     char message[] = "time and tide wait for no man";
253     printf("Message: \"%s\"\n", message);
254     printf("Enter characters: ");
255     scanf("%s", chs);
256
257     count_occurrence(message, chs);
258
259     return 0;
260 }
261
262 void count_occurrence(const char* message, char* chs)
263 {
264     int i = 0;
265     for (i = 0; chs[i] != '\0'; i++)
266     {
267         int j = 0;
268         for (j = i; chs[j] != '\0'; j++)
269         {
270             int z = 0;
271             int count = coun(message, chs, i, j);
272             if (count > 0)
273             {
274                 for (z = i; z <= j; z++)
275                 {
276                     printf("%c", chs[z]);
277                 }
278                 printf(":%d\n", count);
279             }
280         }
281     }
282 }
283
284 int coun(const char* message, char* chs, int i, int j)
285 {
286     int z = 0;
287     int count = 0;
288     int tmp = i;
289     while (j >= i)
290     {
```

```

290 {
291     while (message[z] != '\0')
292     {
293         if (chs[i] == message[z])
294         {
295             if (j == i)
296             {
297                 z++;
298                 count++;
299                 i = tmp;
300             }
301             else
302             {
303                 z++;
304                 i++;
305                 break;
306             }
307         }
308         else
309         {
310             i = tmp;
311             z++;
312         }
313     }
314     if (message[z] == '\0') { ... }
315 }
316 return count;
317 }
318 }
319 }
320 }

```

Microsoft Visual Studio 调试控制台

Message: "time and tide wait for no man"

Enter characters: time

t:3
ti:2
tim:1
time:1
i:3
im:1
ime:1
m:2
me:1
e:2

D:\Electrical Engineering\Electrical Engineering\2023? ???\????????(??)\Lab&HW\HWS\HWS\x64\Debug\HWS.exe (进程 21368) 已退出, 代码为 0。
按任意键关闭此窗口。 . . .

Microsoft Visual Studio 调试控制台

Message: "time and tide wait for no man"

Enter characters: want

w:1
wa:1
a:3
an:2
n:3
t:3

D:\Electrical Engineering\Electrical Engineering\2023? ???\????????(??)\Lab&HW\HWS\HWS\x64\Debug\HWS.exe (进程 18636) 已退出, 代码为 0。
按任意键关闭此窗口。 . . .