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M X
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c q.c > 分 main()
     #include <stdio.h>
     #include <time.h>
     void swap(int *num1, int *num2)
         int temp = *num1;
          *num1 = *num2;
          *num2 = temp;
     int *bubbleSort(int *ar, int len)
          for (int i = 0; i < len; i++)
             int swapped = -1;
             for (int j = 0; j < len - i; j++)
                 if (ar[j] > ar[j + 1])
                     swap(&ar[j], &ar[j + 1]);
                     swapped = 1;
             if (swapped == -1)
```

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> ಭ Ⅲ ..
       M X
c q.c > 分 main()
                 break;
         return ar;
     void printArray(int *arr, int length)
         for (int i = 0; i < length; i++)
             printf("%d ", arr[i]);
         printf("\n");
     void main()
         int arr[] = {5, 4, 3, 2, 1};
         int length = sizeof(arr) / sizeof(arr[0]);
         time t startTick, endTick;
         startTick = clock();
         int *p = bubbleSort(arr, length);
         endTick = clock();
         printArray(p, length);
55
         time t ticksTaken = endTick - startTick;
         double timeTaken = ticksTaken / (double)CLOCKS PER SEC;
         printf("Time taken: %lf s \n", timeTaken);
```

```
| DEBUG CONSOLE | Debug Console | Debug Console | Debug Console | Desktop/Code/College-4th-Sem/DAA-Lab-Assignment-1 (main) (banik) | -->> ./q | 1 2 3 4 5 | Time taken: 0.0000003 s (11:50:36) ~/Desktop/Code/College-4th-Sem/DAA-Lab-Assignment-1 (main) (banik) | -->> |
```