

FileEditViewNavigateCodeRefactorBuildRunToolsVCSWindowHelp

HW_3 - main.c

HW_3 > main.c

HW_3 | Debug

Run

Debug

Test

Run and Debug

Run and Coverage

Run and Profile

Run and Benchmark

Run and Measure

Run and Monitor

Run and Log

Run and Trace

Run and Profile

Run and Benchmark

Run and Measure

Run and Monitor

Run and Log

Run and Trace

Project

HW_3 D:\Tar

External Librar

Scratches and

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// HW_3

// August 1, 2021

// Sonny Sparks

// Homework 3

#include <stdio.h>

#include <stdlib.h> //Call to Libraries

#include <time.h>

#define MAXSIZE 10

////////////////////////////////////

void check_size(int);

void get_elements(int []);

void choice_1(void); //Function Prototypes

void swap(int []);

int choice_3(void);

////////////////////////////////////

int n, I, a[MAXSIZE], y, yy; //Global Variables

////////////////////////////////////

int main()

{

printf(_Format: "Please enter desired size of array: \n");

scanf(_Format: "%d", &n);

check_size(n); //Array Size

get_elements(a);

////////////////////////////////////

printf(_Format: "The elements are: \n"); //Elements print

for(I=0;I<n;I++)

{

printf(_Format: "%d\t", a[I]);

////////////////////////////////////

printf(_Format: "\nPlease choose a key element to be searched: \n");

scanf(_Format: "%d", &y);

printf(_Format: "Please choose one of the following: \n"); //Choice

printf(_Format: "To display position of key element (enter 1): \n");

printf(_Format: "To move the key element to position 1 (enter 2): \n");

}

}

choice_3

Run

TODO

Problems

Terminal

Python Packages

CMake

Messages

Build finished in 430 ms (2 minutes ago)

88:52 LF UTF-8 4 spaces C: HW_3 | Debug

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HW_3 > main.c

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RunDebugStep OverwriteFind in FilesFind in Headers

Project

HW_3 D:\Tarl

External Librar

Scratches and

main.c

31scanf(_Format: "%d", &y);

32printf(_Format: "Please choose one of the following: \n");

33printf(_Format: "To display position of key element (enter 1): \n");

34printf(_Format: "To move the key element to postion 1 (enter 2): \n");

35printf(_Format: "To pick a new key element (enter 3): \n");

36printf(_Format: "Exit: (enter 4): \n");

37scanf(_Format: "%d",&yy);

38//////////

39if(yy==1)

40| choice_1();

41if(yy==2)

42| swap(a);

43if(yy==3)

44| y=choice_3();

45if(yy==4)

46| exit(_Code: 0);

47//////////

48return 0;

49}

50//////////

51void check_size(int x)

52| {

53| if(x>10){

54| | printf(_Format: "Your input exceeds the limit of the array, please try again: \n");

55| | main();}

56| }

57//////////

58void get_elements(int x[])

59| {

60| srand(_Seed: time(_Time: NULL));

61| int i;

62| for(i=0;i<=n;i++)

63| {

64| | a[i]= rand()%1000;

choice_3

Run

TODO

Problems

Terminal

Python Packages

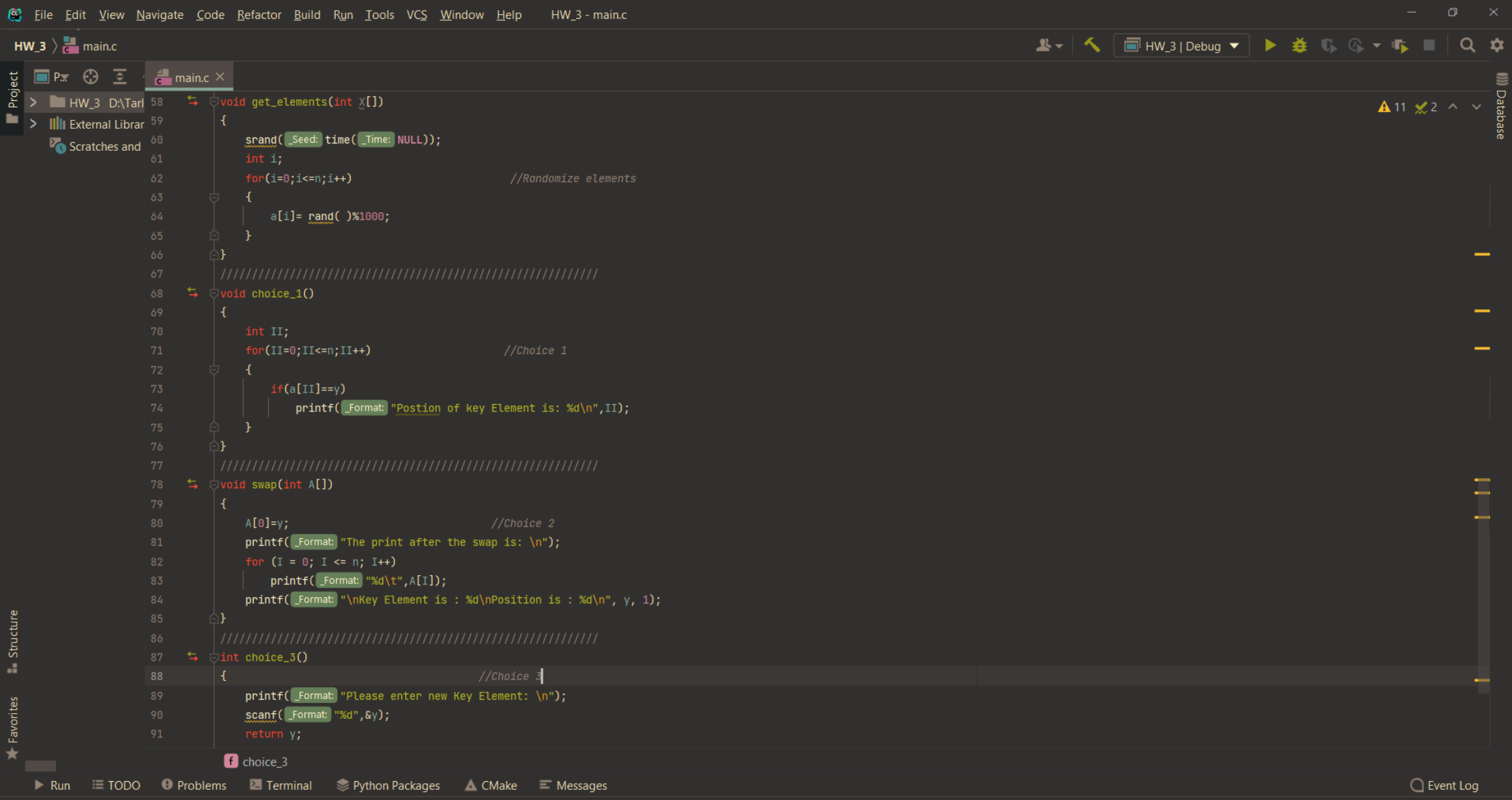
CMake

Messages

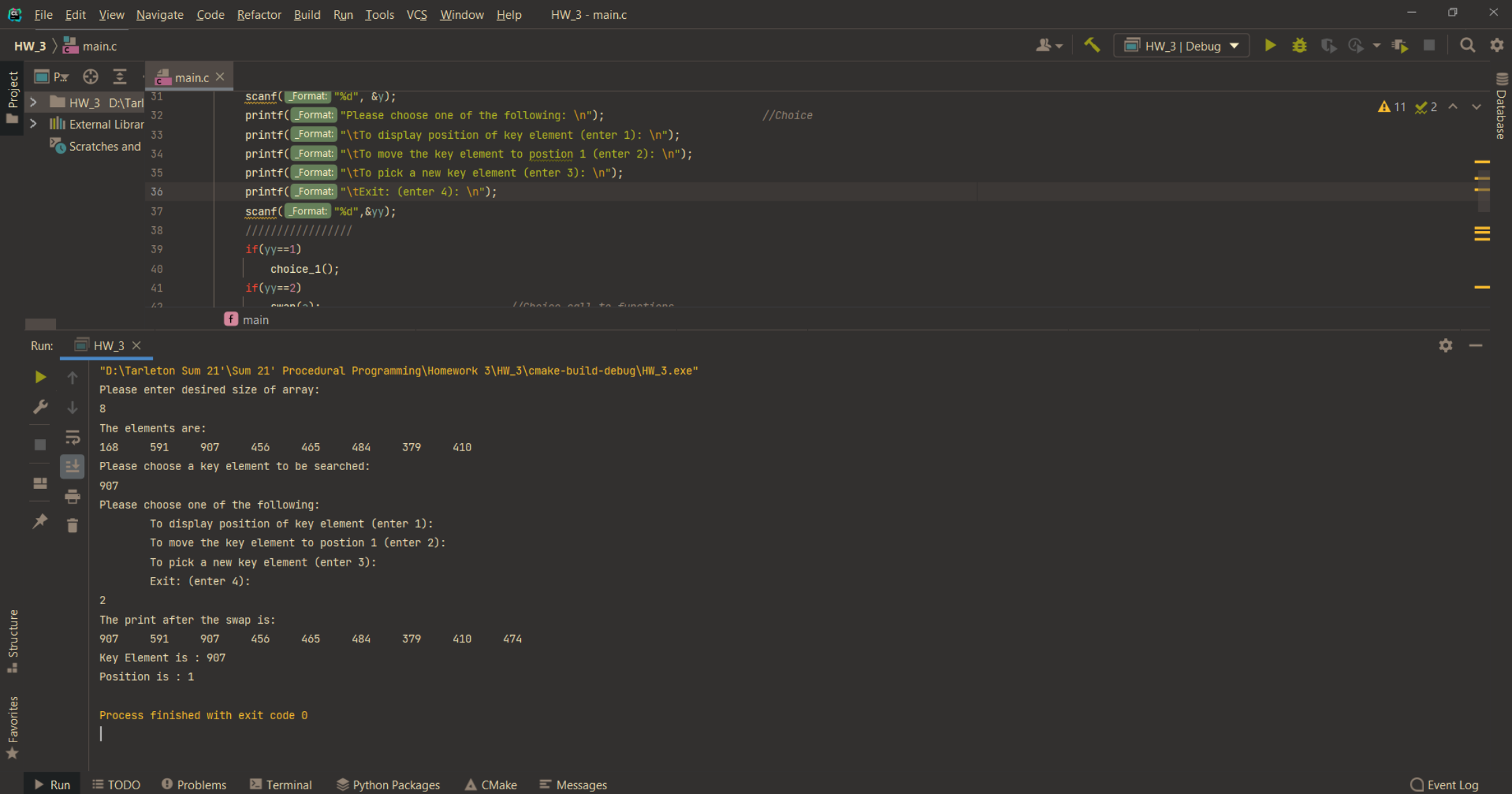
Event Log

Build finished in 430 ms (3 minutes ago)

88:52LFUTF-84 spacesC: HW_3 | Debug



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File Edit View Navigate Code Refactor Build Run Tools VCS Window Help HW_3 - main.c
HW_3 > main.c
Project
> HW_3 D:\Tart
> External Librar
Scratches and
main.c x
58 void get_elements(int x[])
59 {
60     srand( _Seed: time( _Time: NULL));
61     int i;
62     for(i=0;i<=n;i++) //Randomize elements
63     {
64         a[i]= rand( )%1000;
65     }
66 }
67 //////////////////////////////////////////////////
68 void choice_1()
69 {
70     int II;
71     for(II=0;II<=n;II++) //Choice 1
72     {
73         if(a[II]==y)
74             printf( _Format: "Postion of Key Element is: %d\n",II);
75     }
76 }
77 //////////////////////////////////////////////////
78 void swap(int A[])
79 {
80     A[0]=y; //Choice 2
81     printf( _Format: "The print after the swap is: \n");
82     for (I = 0; I <= n; I++)
83         printf( _Format: "%d\t",A[I]);
84     printf( _Format: "\nKey Element is : %d\nPosition is : %d\n", y, 1);
85 }
86 //////////////////////////////////////////////////
87 int choice_3()
88 { //Choice 3
89     printf( _Format: "Please enter new Key Element: \n");
90     scanf( _Format: "%d",&y);
91     return y;
}
choice_3
Run TODO Problems Terminal Python Packages CMake Messages Event Log
```



```
File Edit View Navigate Code Refactor Build Run Tools VCS Window Help HW_3 - main.c
HW_3 > main.c
Project
  HW_3 D:\Tarleton Sum 21\Procedural Programming\Homework 3\HW_3\cmake-build-debug\HW_3.exe
  External Libraries
  Scratches and Snippets
main.c
31 scanf( _Format: "%d", &y);
32 printf( _Format: "Please choose one of the following: \n"); //Choice
33 printf( _Format: "\tTo display position of key element (enter 1): \n");
34 printf( _Format: "\tTo move the key element to postion 1 (enter 2): \n");
35 printf( _Format: "\tTo pick a new key element (enter 3): \n");
36 printf( _Format: "\tExit: (enter 4): \n");
37 scanf( _Format: "%d",&yy);
38 ///////////////
39 if(yy==1)
40 |   choice_1();
41 if(yy==2)
42 |   swap(a); //Choice call to functions
main
Run: HW_3
"D:\Tarleton Sum 21\Procedural Programming\Homework 3\HW_3\cmake-build-debug\HW_3.exe"
Please enter desired size of array:
8
The elements are:
168 591 907 456 465 484 379 410
Please choose a key element to be searched:
907
Please choose one of the following:
  To display position of key element (enter 1):
  To move the key element to postion 1 (enter 2):
  To pick a new key element (enter 3):
  Exit: (enter 4):
2
The print after the swap is:
907 591 907 456 465 484 379 410 474
Key Element is : 907
Position is : 1
Process finished with exit code 0
|
Run TODO Problems Terminal Python Packages CMake Messages Event Log
```