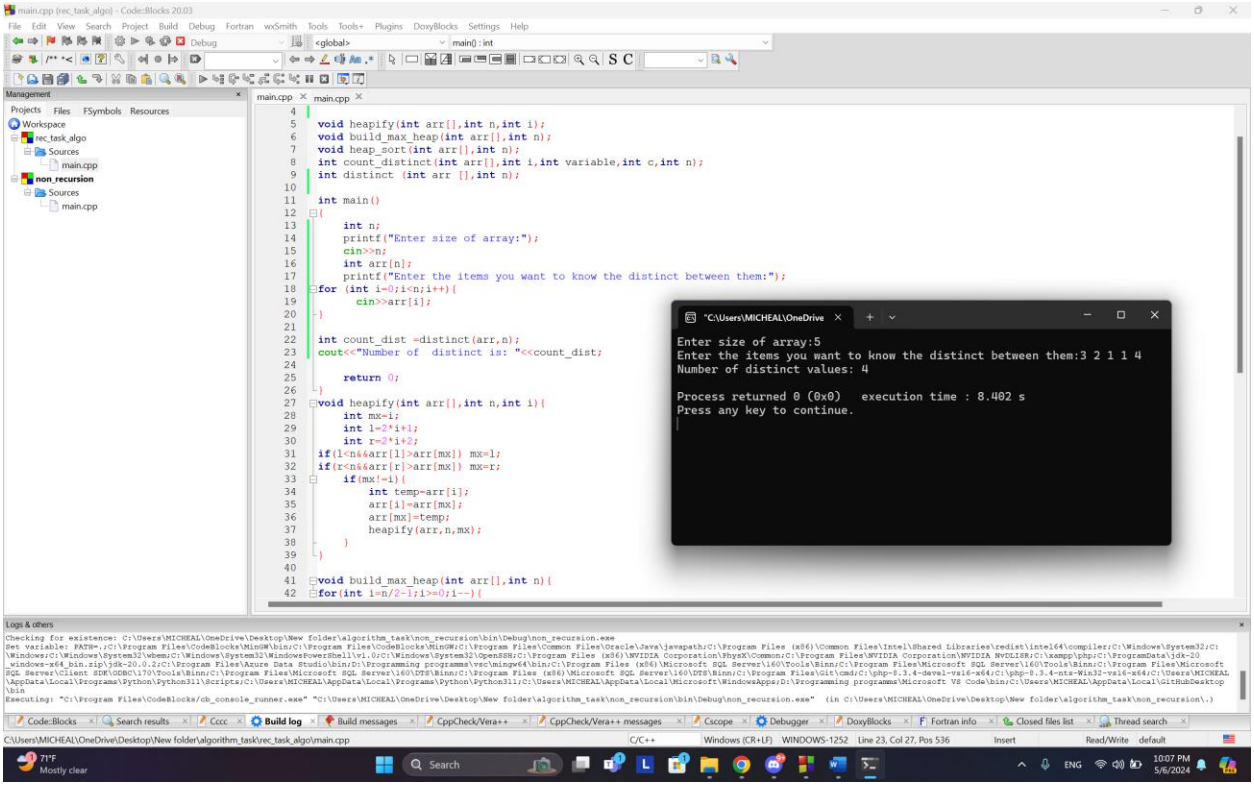
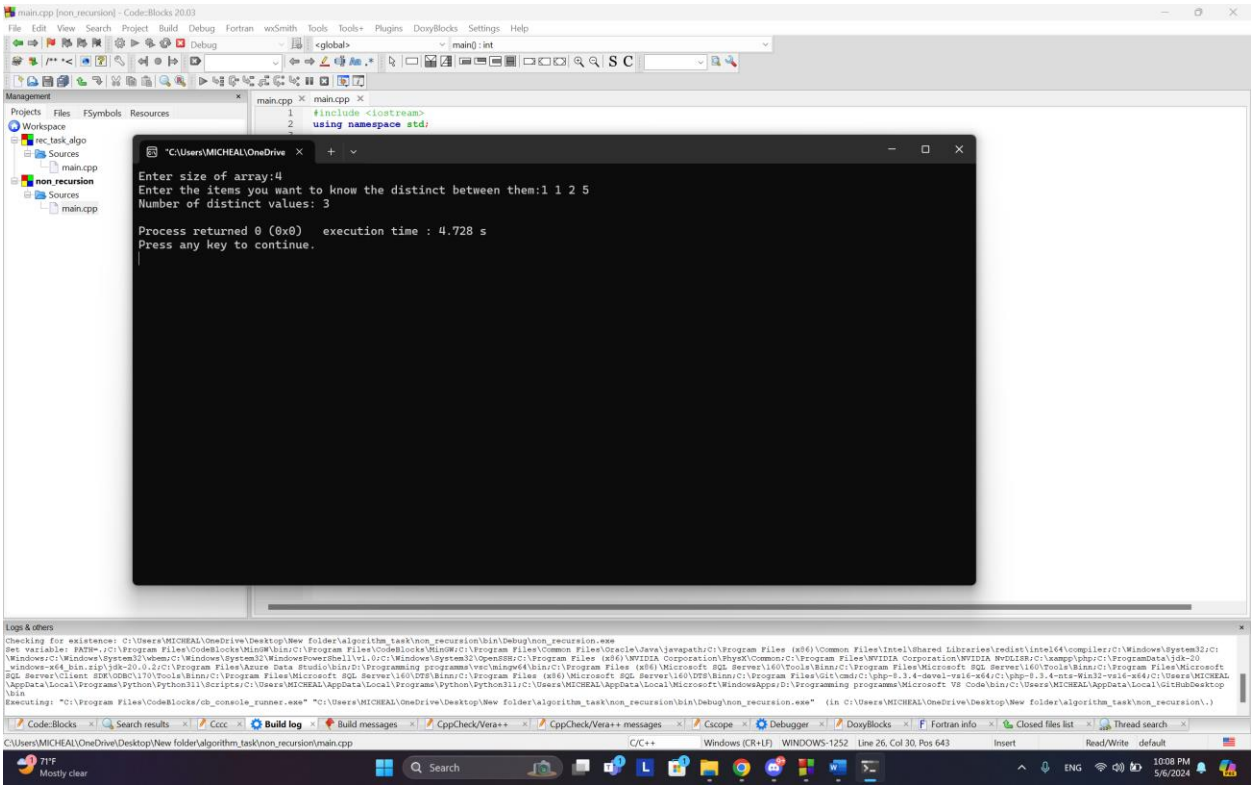

main.cpp (rec_task_algo) - Code::Blocks 20.03
main.cpp
void heapify(int arr[],int n,int i);
void build_max_heap(int arr[],int n);
void heap_sort(int arr[],int n);
int count_distinct(int arr[],int i,int variable,int c,int n);
int distinct (int arr [],int n);
int main()
{
int n;
printf("Enter size of array:");
cin>>n;
int arr[n];
printf("Enter the items you want to know the distinct between them:");
for (int i=0;i<n;i++){
cin>>arr[i];
}
int count_dist =distinct(arr,n);
cout<<"Number of distinct is: "<<count_dist;
return 0;
}
void heapify(int arr[],int n,int i){
int mx=i;
int l=2*i+1;
int r=2*i+2;
if(l<n&&arr[l]>arr[mx]) mx=l;
if(r<n&&arr[r]>arr[mx]) mx=r;
if(mx!=i){
int temp=arr[i];
arr[i]=arr[mx];
arr[mx]=temp;
heapify(arr,n,mx);
}
}
void build_max_heap(int arr[],int n){
for(int i=n/2-1;i>=0;i--){
"C:\Users\MICHEAL\OneDrive
Enter size of array:5
Enter the items you want to know the distinct between them:3 2 1 1 4
Number of distinct values: 4
Process returned 0 (0x0) execution time : 8.402 s
Press any key to continue.


main.cpp (non_recursion) - Code::Blocks 20.03
main.cpp
#include <iostream>
using namespace std;
"C:\Users\MICHEAL\OneDrive
Enter size of array:4
Enter the items you want to know the distinct between them:1 1 2 5
Number of distinct values: 3
Process returned 0 (0x0) execution time : 4.728 s
Press any key to continue.