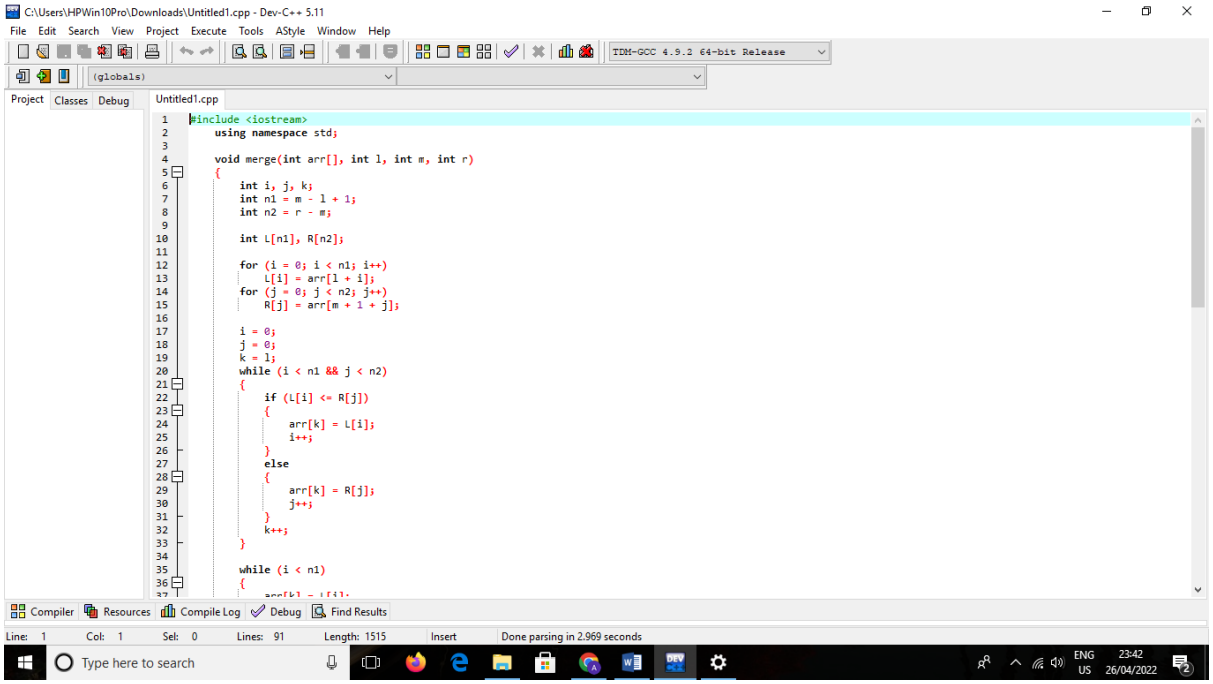
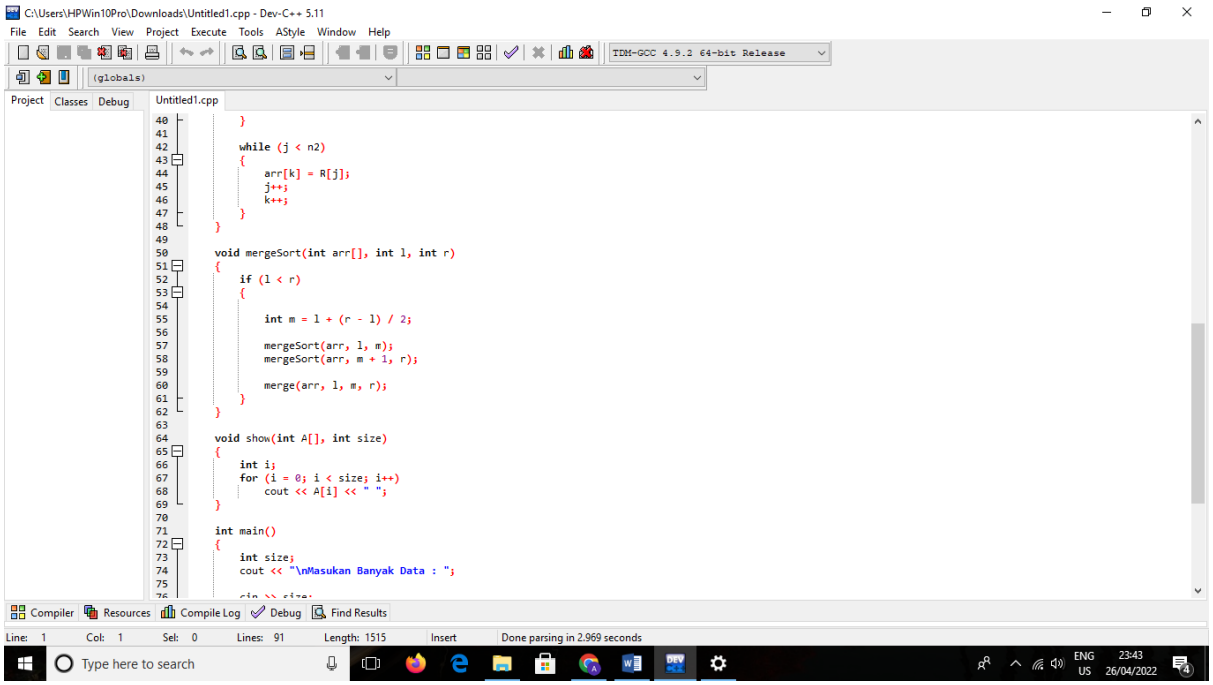
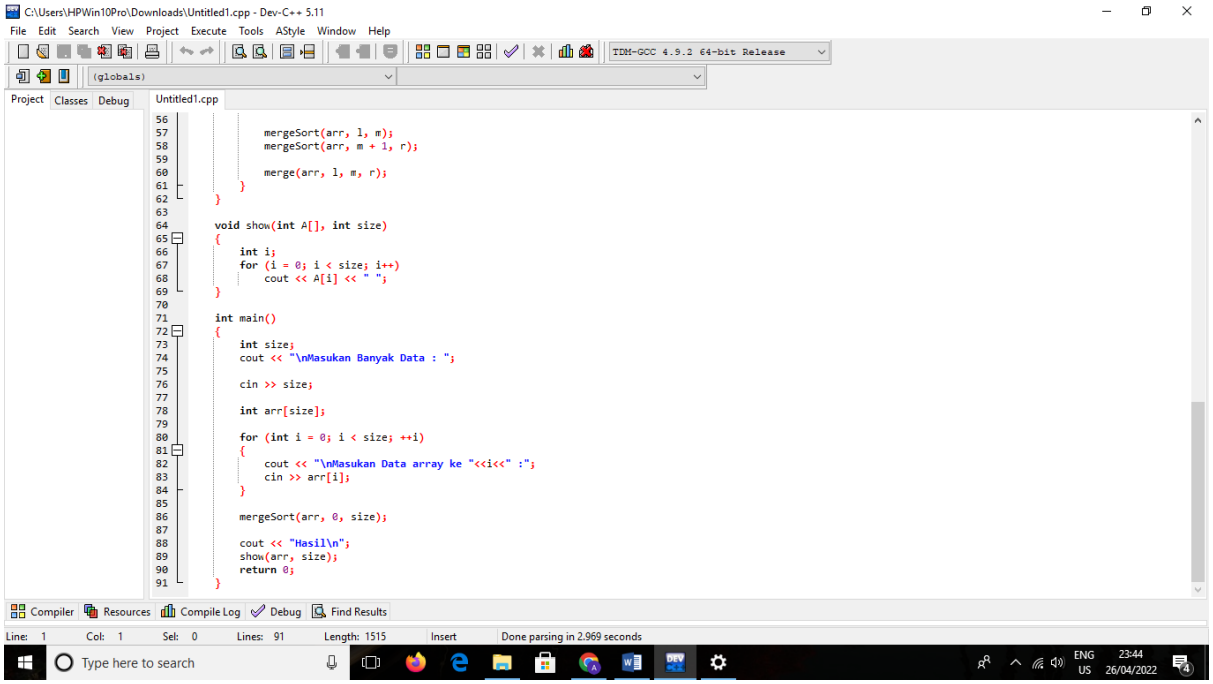
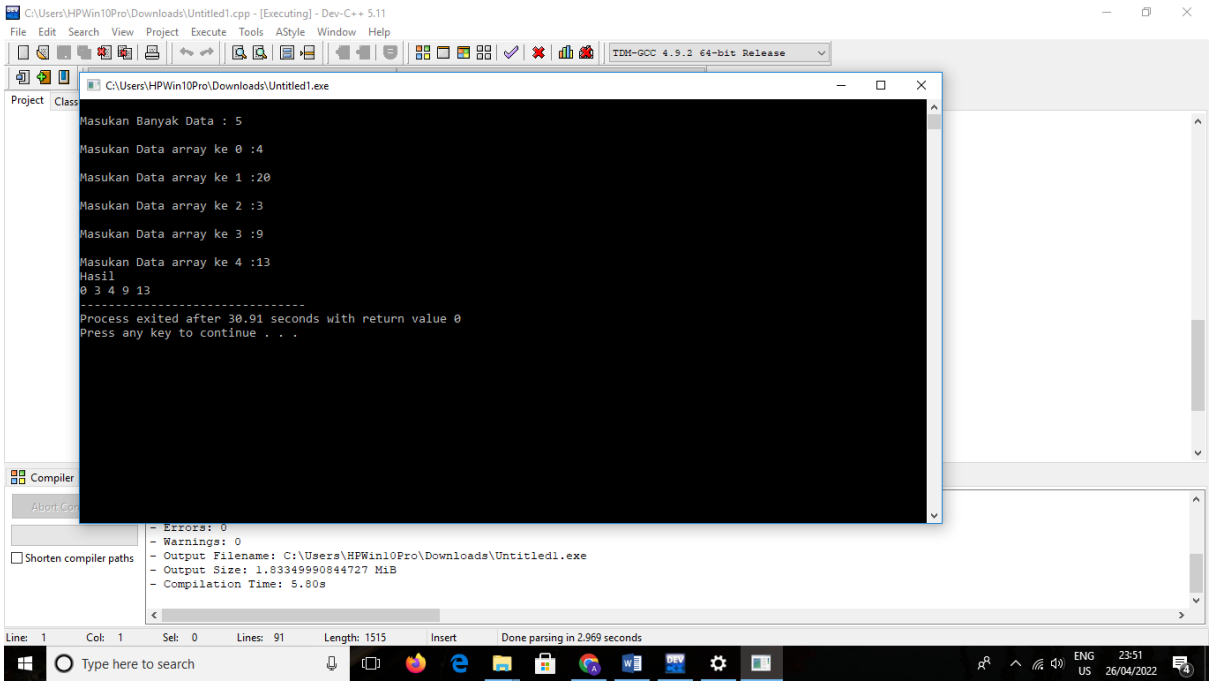

C:\Users\HPWin10Pro\Downloads\Untitled1.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
#include <iostream>
using namespace std;
void merge(int arr[], int l, int m, int r)
{
int i, j, k;
int n1 = m - l + 1;
int n2 = r - m;
int L[n1], R[n2];
for (i = 0; i < n1; i++)
L[i] = arr[l + i];
for (j = 0; j < n2; j++)
R[j] = arr[m + 1 + j];
i = 0;
j = 0;
k = l;
while (i < n1 && j < n2)
{
if (L[i] <= R[j])
{
arr[k] = L[i];
i++;
}
else
{
arr[k] = R[j];
j++;
}
k++;
}
while (i < n1)
{
Compiler Resources Compile Log Debug Find Results
Line: 1 Col: 1 Sel: 0 Lines: 91 Length: 1515 Insert Done parsing in 2.969 seconds
Type here to search
ENG US 23:42 26/04/2022


C:\Users\HPWin10Pro\Downloads\Untitled1.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
}
while (j < n2)
{
arr[k] = R[j];
j++;
k++;
}
}
void mergeSort(int arr[], int l, int r)
{
if (l < r)
{
int m = l + (r - l) / 2;
mergeSort(arr, l, m);
mergeSort(arr, m + 1, r);
merge(arr, l, m, r);
}
}
void show(int A[], int size)
{
int i;
for (i = 0; i < size; i++)
cout << A[i] << " ";
}
int main()
{
int size;
cout << "\nMasukan Banyak Data : ";
Compiler Resources Compile Log Debug Find Results
Line: 1 Col: 1 Sel: 0 Lines: 91 Length: 1515 Insert Done parsing in 2.969 seconds
Type here to search
ENG US 23:43 26/04/2022


C:\Users\HPWin10Pro\Downloads\Untitled1.cpp - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
Untitled1.cpp
mergeSort(arr, l, m);
mergeSort(arr, m + 1, r);
merge(arr, l, m, r);
}
}
void show(int A[], int size)
{
int i;
for (i = 0; i < size; i++)
cout << A[i] << " ";
}
int main()
{
int size;
cout << "\nMasukan Banyak Data : ";
cin >> size;
int arr[size];
for (int i = 0; i < size; ++i)
{
cout << "\nMasukan Data array ke "<<i<<" :";
cin >> arr[i];
}
mergeSort(arr, 0, size);
cout << "Hasil\n";
show(arr, size);
return 0;
}
Compiler Resources Compile Log Debug Find Results
Line: 1 Col: 1 Sel: 0 Lines: 91 Length: 1515 Insert Done parsing in 2.969 seconds
Type here to search
ENG US 23:44 26/04/2022


C:\Users\HPWin10Pro\Downloads\Untitled1.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
C:\Users\HPWin10Pro\Downloads\Untitled1.exe
Masukan Banyak Data : 5
Masukan Data array ke 0 :4
Masukan Data array ke 1 :20
Masukan Data array ke 2 :3
Masukan Data array ke 3 :9
Masukan Data array ke 4 :13
Hasil
0 3 4 9 13
Process exited after 30.91 seconds with return value 0
Press any key to continue . . .
Compiler
Shorten compiler paths
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\HPWin10Pro\Downloads\Untitled1.exe
- Output Size: 1.83349990844727 MiB
- Compilation Time: 5.80s
Line: 1 Col: 1 Sel: 0 Lines: 91 Length: 1515 Insert Done parsing in 2.969 seconds
Type here to search
ENG US 23:51 26/04/2022

Kelebihan merge sort

Cocok untuk **sorting** akses datanya lambat misalnya tape drive atau hard disk. Cocok untuk **sorting** data yang biasanya diakses secara sequentially (berurutan), misalnya linked list, tape drive, dan hard disk.

Kekurangan merge sort

- **Kekurangan Merge Sort** yaitu terlalu banyak menggunakan ruang pada memori.
- **Merge Sort** membutuhkan lebih banyak ruang daripada jenis **sorting** lainnya.