#include <algorithm>

#include <iostream>

using namespace std;

struct Job {

char id;

int dead;

int profit;

};

bool comparison(Job a, Job b)

{

return (a.profit > b.profit);

}

void printJobScheduling(Job arr[], int n)

{

sort(arr, arr + n, comparison);

int result[n];

bool slot[n];

for (int i = 0; i < n; i++)

slot[i] = false;

for (int i = 0; i < n; i++) {

for (int j = min(n, arr[i].dead) - 1; j >= 0; j--) {

if (slot[j] == false) {

result[j] = i;

slot[j] = true;

break;

}

}

}

for (int i = 0; i < n; i++)

if (slot[i])

cout << arr[result[i]].id << " ";

}

int main()

{

Job arr[] = { { 'a', 2, 100 },

{ 'b', 1, 19 },

{ 'c', 2, 27 },

{ 'd', 1, 25 },

{ 'e', 3, 15 } };

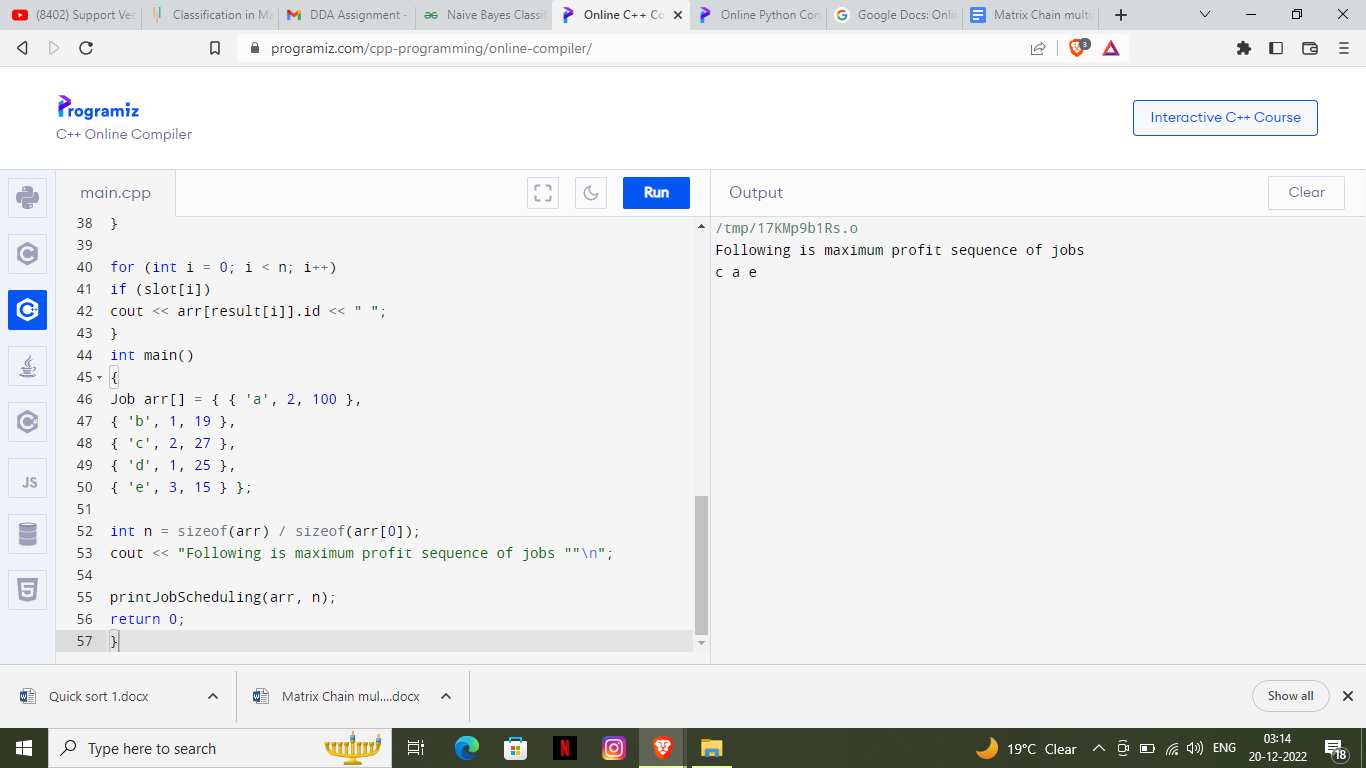
int n = sizeof(arr) / sizeof(arr[0]);

cout << "Following is maximum profit sequence of jobs ""\n";

printJobScheduling(arr, n);

return 0;

}

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