**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **27-06-2020** | | | | | **Name:** | **Deeksha D Poojary** | |
| **Sem & Sec** | **VIII Semester & A Section** | | | | | **USN:** | **4AL16CS026** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | | **-** | | | | | | |
| **Max. Marks** | | **-** | | **Score** | | | **-** | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | **Introduction to Amazon Elastic Compute Cloud (EC2)** | | | | | | | |
| **Certificate Provider** | | | **Amazon Web Service** | | **Duration** | | | **10 minutes** |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement: Write a program to find largest palindrom in an array** | | | | | | | | |
| **Status: COMPLETED** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **YES** | | | |
| **If yes Repository name** | | | | | **deekshapoojari** | | | |
| **Uploaded the report in slack** | | | | | **YES** | | | |

Online Test Details:

NIL

Certification Course Coding Challenges Details:

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**Program1:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | |  | |
| #include<stdio.h> |
|  |  | | #include<stdlib.h> | |
|  |  | | int min(int a, int b) | |
|  |  | | { | |
|  |  | | if(a>b) | |
|  |  | | return b; | |
|  |  | | else | |
|  |  | | return a; | |
|  |  | | } | |
|  |  | |  | |
|  |  | | // Function to find absolute sum | |
|  |  | | int abs\_sum(int arr[], int n) | |
|  |  | | { | |
|  |  | |  | |
|  |  | | int sum = 0; | |
|  |  | |  | |
|  |  | | sum += abs(arr[0] - arr[1]); | |
|  |  | | sum += abs(arr[n-1] - arr[n-2]); | |
|  |  | |  | |
|  |  | | for (int i=1; i<n-1; i++) | |
|  |  | | sum += min(abs(arr[i] - arr[i-1]), abs(arr[i] - arr[i+1])); // Total sum of absolute difference | |
|  |  | |  | |
|  |  | | return sum; | |
|  |  | | } | |
|  |  | |  | |
|  |  | | // Function to sort the elements | |
|  |  | |  | |
|  |  | | void sort(int a[], int n) | |
|  |  | | { | |
|  |  | | for(int i = 0; i < n-1; i++) | |
|  |  | | { | |
|  |  | | for(int j = 0; j < n-i-1; j++) | |
|  |  | | { | |
|  |  | | if (a[j] > a[j+1]) | |
|  |  | | { | |
|  |  | | int temp = a[j]; | |
|  |  | | a[j] = a[j+1]; | |
|  |  | | a[j+1] = temp; | |
|  |  | | }}}} | |
|  |  | |  | |
|  |  | | int main() | |
|  |  | | { | |
|  |  | | int a[20], n, i; | |
|  |  | | printf("Enter the number of elements: "); | |
|  |  | | scanf("%d", &n); | |
|  |  | | printf("Enter the elements: "); | |
|  |  | | for(i=0; i<n; i++) | |
|  |  | | { | |
|  |  | | scanf("%d", &a[i]); | |
|  |  | | } | |
|  |  | | sort(a, n); | |
|  |  | | printf("The minimum sum of absolute is %d",abs\_sum(a, n)); | |
|  |  | | return 0; | |
|  |  | | } | |
| #include<stdio.h> |
|  |  | | #include<stdlib.h> | |
|  |  | | int min(int a, int b) | |
|  |  | | { | |
|  |  | | if(a>b) | |
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|  |  | | int sum = 0; | |
|  |  | |  | |
|  |  | | sum += abs(arr[0] - arr[1]); | |
|  |  | | sum += abs(arr[n-1] - arr[n-2]); | |
|  |  | |  | |
|  |  | | for (int i=1; i<n-1; i++) | |
|  |  | | sum += min(abs(arr[i] - arr[i-1]), abs(arr[i] - arr[i+1])); // Total sum of absolute difference | |
|  |  | |  | |
|  |  | | return sum; | |
|  |  | | } | |
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|  |  | | void sort(int a[], int n) | |
|  |  | | { | |
|  |  | | for(int i = 0; i < n-1; i++) | |
|  |  | | { | |
|  |  | | for(int j = 0; j < n-i-1; j++) | |
|  |  | | { | |
|  |  | | if (a[j] > a[j+1]) | |
|  |  | | { | |
|  |  | | int temp = a[j]; | |
|  |  | | a[j] = a[j+1]; | |
|  |  | | a[j+1] = temp; | |
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|  |  | | sum += abs(arr[0] - arr[1]); | |
|  |  | | sum += abs(arr[n-1] - arr[n-2]); | |
|  |  | |  | |
|  |  | | for (int i=1; i<n-1; i++) | |
|  |  | | sum += min(abs(arr[i] - arr[i-1]), abs(arr[i] - arr[i+1])); // Total sum of absolute difference | |
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|  |  | | return sum; | |
|  |  | | } | |
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|  |  | | { | |
|  |  | | for(int j = 0; j < n-i-1; j++) | |
|  |  | | { | |
|  |  | | if (a[j] > a[j+1]) | |
|  |  | | { | |
|  |  | | int temp = a[j]; | |
|  |  | | a[j] = a[j+1]; | |
|  |  | | a[j+1] = temp; | |
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|  |  | | sum += abs(arr[n-1] - arr[n-2]); | |
|  |  | |  | |
|  |  | | for (int i=1; i<n-1; i++) | |
|  |  | | sum += min(abs(arr[i] - arr[i-1]), abs(arr[i] - arr[i+1])); // Total sum of absolute difference | |
|  |  | |  | |
|  |  | | return sum; | |
|  |  | | } | |
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|  |  | | if (a[j] > a[j+1]) | |
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|  |  | | int temp = a[j]; | |
|  |  | | a[j] = a[j+1]; | |
|  |  | | a[j+1] = temp; | |
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