DAILY ONLINE ACTIVITIES SUMMARY

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **15/6/2020** | | | | **Name:** | **Sushmitha Shet** | |
| **Sem & Sec** | **8 B** | | | | **USN:** | **4al16cs110** | |
| Online Test Summary | | | | | | | |
| **Subject** | | **SMS** | | | | | |
| **Max. Marks** | | **60** | | **Score** | | **60** | |
| Certification Course Summary | | | | | | | |
| **Course** | **Introduction to Amazon Elastic Compute cloud(EC2)** | | | | | | |
| **Certificate Provider** | | | **AWS** | **Duration** | | | **10 min** |
| Coding Challenges | | | | | | | |
| **Problem Statement: Write a Program to find the maximum element in an array using binary search.** | | | | | | | |
| **Status:-solved** | | | | | | | |
| **Uploaded the report in Github** | | | | **Yes** | | | |
| **If yes Repository name** | | | | **sushmithashet** | | | |
| **Uploaded the report in slack** | | | | **Yes** | | | |

Online coding:

Program to find maximum element in an array using binary search.

#include <stdio.h>

void max\_heapify(int \*a, int i, int n)

{

int j, temp;

temp = a[i];

j = 2 \* i;

while (j <= n)

{

if (j < n && a[j+1] > a[j])

j = j + 1;

if (temp > a[j])

break;

else if (temp <= a[j])

{

a[j / 2] = a[j];

j = 2 \* j;

}

}

a[j/2] = temp;

return;

}

int binarysearchmax(int \*a,int n)

{

int i;

for(i = n/2; i >= 1; i--)

{

max\_heapify(a,i,n);

}

return a[1];

}

int main()

{

int n, i, x, max;

int a[20];

printf("Enter no of elements of array\n");

scanf("%d", &n);

printf("\nEnter %d elements: ", n);

for (i = 1; i <= n; i++)

{

scanf("%d", &a[i]);

}

max = binarysearchmax(a, n);

printf("\nMaximum element is : %d", max);

return 0;

}