

TCS Coding Question 2 | Given a maximum of four digit to the base 17 (10 – A ...

Sweet Seventeen Problem Statement

Given a maximum of four digit to the base 17 (10 - A, 11 - B, 12 - C, 13 - D ... 16 - G) as input, output its decimal value.

Test Cases

Case 1

- Input 1A
- Expected Output 27

Case 2

- Input 23GF
- Expected Output 10980



C Program

```
#include <stdio.h>
#include <math.h>
#include <string.h>
int main(){
 char hex[17];
 long long decimal, place;
 int i = 0, val, len;
 decimal = 0;
 place = 1;
 scanf("%s",hex);
 len = strlen(hex);
 len--;
  for(i = 0;hex[i]!='\0';i++)
    if(hex[i]>='0'&& hex[i]<='9'){
      val = hex[i] - 48;
    else if(hex[i]>='a'&& hex[i]<='g'){
      val = hex[i] - 97 + 10;
    else if(hex[i]>='A'&& hex[i]<='G'){
      //similarly, 65 to 71 are values of A - G
     val = hex[i] - 65 + 10;
    decimal = decimal + val * pow(17,len);
    len--;
 printf("%1ld",decimal);
  return 0;
```

TCS Coding Questions

All Coding Questions for TCS

Very Important

- Coding Question 1
- Coding Question 2
- Coding Question 3
- Coding Question 4
- Coding Question 5
- Coding Question 6
- Coding Question 7
- Coding Question 9
- Coding Question 10

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```
apoorv1498 #include
using namespace std; int main(){
string s;
cin>>s;
int dec = 0;
int k = s.length()-1;
for(int i=0; i<s.length(); i++){</pre>
char ch = s[i];
if(ch=='A'){}
dec = dec + 10*pow(17,k);
k–;
}
else if(ch=='B'){
dec = dec + 11*pow(17,k);
k–;
}
else if(ch=='C'){
dec = dec + 12*pow(17,k);
k-;
else if(ch=='D'){
dec = dec + 13*pow(17,k);
k-;
}
else if(ch=='E'){
dec = dec + 14*pow(17,k);
k–;
}
else if(ch=='F'){
```

dec = dec + 15*pow(17,k);

```
k-;
}
else if(ch=='G'){
dec = dec + 16*pow(17,k);
k-;
}
else{
dec = dec + (int(s[i])-48)*pow(17,k);
k–;
}
cout<<dec;
 Log in to Reply
Jatin /*Little bit lengthy But easy Explanation */
import java.util.*;
public class Main {
public static void main(String args[]) {
String str = "23GF";
HashMaphmap = new HashMap();
hmap.put('A',10);
hmap.put('B',11);
hmap.put('C',12);
hmap.put('D',13);
hmap.put('E',14);
hmap.put('F',15);
hmap.put('G',16);
hmap.put('H',17);
hmap.put('0',0);
hmap.put('1',1);
hmap.put('2',2);
hmap.put('3',3);
hmap.put('4',4);
hmap.put('5',5);
hmap.put('6',6);
hmap.put('7',7);
hmap.put('8',8);
hmap.put('9',9); int k = 0;
int ans 1 = 0;
for(int i = str.length()-1; i \ge 0; i \ge 0; i \ge 0
char ch = str.charAt(i);
if(hmap.containsKey(ch)){
int ans = hmap.get(ch);
ans1 = ans1 + ans*(int)Math.pow(17,k);
k++;
}
```

```
System.out.print(ans1);}
}

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```

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