## Infosys SE and DSE Today Paper Solutions

(23-October-2021)

\*ech lecture

\*ech lecture

, orithe

### 1. Alice and bob code (python)

```
a=int(input())
b=int(input())
c=int(input())
d=int(input())
cu=0
for i in range(a*a,b*b+1):
  if i%c==0 and i %d==0 and str(c) in str(i) and str(d) in str(i):
*ech lecture
    cu+=1
```

1 octure

\*ech lecture

, orithe

\*ech lecture

\*ech lecture

\*ech lecture

\*ech lecture

, orithe

## 2. Beautiful Array (c++)

\*GCH ISI

```
class Solution {
public:
vector beautifulArray(int n) {
vectorans;
ans.push back(1);
while(ans.size()<n)
{
vectort;
for(int i=0;i<ans.size();i++)
{
if(2ans[i]-1<=n)
{
t.push_back(2ans[i]-1);
for(int i=0;i<ans.size();i++)
if(2ans[i]<=n)
t.push_back(2ans[i]);
```

1 octure

## xech iei **Tech Lecture with Madhuri**

\*ech lecture

\*ech lecture

\*ech lecture

\*ech lecture

CHUKE

```
ans=t;
```

1 OCHUNE

, orithe

\* scy is,

```
3. Magic Button code

if ((m == 0 and n == 0) or n == 0):
   if (a[m - 1] == b[n - 1]):
     return (count(a, b, m - 1, n - 1) +
         count(a, b, m - 1, n))
   else:
     return count(a, b, m - 1, n)
```

\*ech lecture

\*ech lecture

\*ech lecture

\*ech lecture

, orithe

## 4. Count special numbers code (in C)

\*GCH ISI

```
#include <iostream>
using namespace std;
int main(){
string s;
getline(cin,s);
int count = 0;
for(int i = 0; s[i]!='(0'; i++){
if(s[i] >= 65 \&\& s[i] <= 90)
continue;
if(s[i] >= 97 \&\& s[i] <= 122)
continue;
                                     *ech lecture
if(s[i] >= 48 \&\& s[i] <= 57)
continue;
count++;
}
cout<<count<<endl;
return 0;
*ech lecture
```

1 octure

## 5. CalcMin Code (python)

1 octure

```
*ech lecture
                            *ech lecture
def calcmin(K,N,Q,S,P):
sum=0
if len(Q)==1:
for i in P:
                                                        *ech lecture
 if sum<Q[0]:
 sum=sum+P[i]
return i+1
elif len(Q)>1:
while i<len(Q)-1:
                                                        *ech lecture
 x=Q[i]
 for j in S,P:
 if S[j] == Q.index(x) and P[j] < x:
  if sum<x:
  sum=sum+P[j]
 i+=1
                                                       *ech lecture
*ech lecture
 arr.append(i)
```

, orithe

#### 6. Max Beauty

```
import math
n = int(input())
a = []
for i in range(n):
a.append(int(input()))
ans = 0
for j in range(1, 1 << n):
index = 0
k = []
while(j != 0):
if (j \& 1) == 1:
k.append(a[index])
index += 1
j = j >> 1
s = sum(k)
r = k[0]
for p in range(1, len(k)):
r = r \mid k[p]
m = (s/r)
ans = max(ans, m)
print(math.floor(ans*10000))
import math n = int(input()) a = [] for i in range(n): a.append(int(input())) ans = 0 for j in range(1, 1
<< n): index = 0 k = [] while(j != 0): if (j & 1) == 1: k.append(a[index]) index += 1 j = j >> 1 s = sum(k) r
= k[0] for p in range(1, len(k)): r = r \mid k[p] m = (s/r) ans = max(ans, m) print(math.floor(ans*10000))
```

, orthe

\*ech lecture

\*ech lecture

, orithe

"GCW IR.

\*ech lecture

\*ech lecture

\*ech lecture

\*ech lecture

, orithe

# 7. Permutations code C-language #include<stdio.h> int main\*\*

\* Chier

Cillie

```
C-language
#include<stdio.h>
int main()
{
    int I,c=0,k=1;
   char str[1000];
   scanf(" %s",str);
    for(i=0; str[i]!='\0'; i++)
           C++;
   for(i=1; i<=c; i++)
    Printf("%d",k);
*ech lecture
    Return 0;
```

1 octure

# Tech Lecture with Madhuri

"sech lecture

\*ech lecture

, orithe

"GCW IS.

rechlecture

\*ech lecture

\*ech lecture

\*ech lecture

, orithe

```
Python

from itertools import permutations

val=int(input())

f_list=[' '.join(p) for p in permutations(str(val))]

f_list.sort()

small=int(f_list[0])

large=int(f_list[len(f_list)-1])

print(small+large)
```

\* ech les

\*ech lecture

\*ech lecture

1 octure

Cillie

cilire