



LAB REPORT

Khulna University of Engineering & Technology

Computer Science and Engineering

Name : Doniel Tripura

Roll : 1907121

Semester : 2nd

Subject : CSE 1202

Assignment : uva 100, uva 136, uva 494, uva 10038



```
//UVA 100
//USER ID: Doniel_121
//Online judge id: 1131325

#include<stdio.h>

int main()
{
    int x,y;
    while(scanf("%d %d",&x,&y)!= EOF)
    {
        int A,B,n,mx=0,i,j,count;
        if(x<y) A=x,B=y;
        else A=y,B=x;
        if(A==0) A++;
        for(i=A;i<=B;i++)
        {
            n=i;
            count=1;
            while(n!=1)
            {
                count++;
                if(n%2!=0) n=3*n+1;
                else n/=2;
            }
            if(mx<count) mx=count;
        }
        printf("%d %d %d\n",x,y, mx);
    }
}
```

```
//UVA 136
//USER ID: Doniel_121
//Online judge id: 1131325
```

```
#include<stdio.h>
```

```
int main()
{
    int i,n,x,y,z,a,b,c,arr[2000],ans;
    x=y=z=0;
    arr[0]=1;
    for(i=1;i<1500;i++)
    {
        a=2*arr[x];
        b=3*arr[y];
        c=5*arr[z];
        if(a<b)
        {
            if(a<c)
            {
                ans=a;
            }
            else
            {
                ans=c;
            }
        }
        else
        {
            if(b<c)
            {
                ans=b;
            }
            else
            {
                ans=c;
            }
        }
        arr[i]=ans;
        if(ans==a) x++;
        if(ans==b) y++;
        if(ans==c) z++;
    }
    printf("The 1500'th ugly number is %d.\n",ans);
}
```

CSE Lab->3rd

```
//UVA 494
//USER ID: Doniel_121
//Online judge id: 1131325


//uva 495
#include<stdio.h>
#include<string.h>
int main()
{
    char ch[100];
    int i,count,word;
    while(gets(ch))
    {
        count=word=0;
        for(i=0;i<strlen(ch);i++)
        {
            if((ch[i]>='a' && ch[i]<='z') || (ch[i]>='A' && ch[i]<='Z')) word=1;
            else count+=word, word=0;
        }
        count+=word;
        printf("%d\n",count);
    }
}
```

```

//UVA 10038
//USER ID: Doniel_121
//Online judge id: 1131325
#include<stdio.h>
#include<string.h>
int main()
{
    int n;
    while(scanf("%d",&n)==1)
    {
        int i,j=0,a[n+1],d[n],mx,mn,t;
        for(i=1;i<=n;i++)
        {
            scanf("%d",&a[i]);
        }
        for(i=1;i<=n;i++)
        {
            if(a[i]>a[i+1])
            {
                mx=a[i],mn=a[i+1];
            }
            else
            {
                mx=a[i+1],mn=a[i];
            }
            d[i]=mx-mn;
        }
        for(i=1;i<n;i++)
        {
            for(j=1;j<n;j++)
            {
                if(d[j]>d[j+1])
                {
                    t=d[j],d[j]=d[j+1],d[j+1]=t;
                }
            }
        }
        int hudai=0;
        for(i=1;i<n;i++)
        {
            if(d[i]!=i) hudai=1;
        }
        if(hudai==0) printf("Jolly\n");
        else printf("Not jolly\n");
    }
}

```

Profile Name: Doniel_121



Online Judge

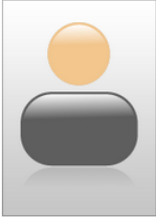
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