

**Всеукраїнській олімпіаді з інформатики NetOI-2015 ( <http://www.olymp.vinnica.ua/> )**

**Тренувальний тур**

```
//a
```

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{int x1,y1,x2,y2,x3,y3,x4,y4;
```

```
cin>>x1>>y1;
```

```
cin>>x2>>y2;
```

```
cin>>x3>>y3;
```

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```
cin>>x4>>y4;
```

```
int x20=max(x1,x2);
```

```
int x10=min(x1,x2);
```

```
int x40=max(x3,x4);
```

```
int x30=min(x3,x4);
```

```
int v=min(x20,x40)-max(x30,x10);
```

```
if (v>=0)cout << v << endl; else cout<<-1;
```

```
return 0;
```

```
}
```

```
//d
```

```
#include <iostream>
```

```
#include <string.h>
```

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---

```
#include <string>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    char *n=new char[2000000000];
```

```
    cin>>n;
```

```
    for(int i=0;i<strlen(n)-1;i++)
```

```
    for(int j=0;j<strlen(n)-1;j++)
```

```
        if(n[j]>n[j+1])swap(n[j],n[j+1]);
```

```
    int k=0;
```

```
    while(n[k]!='0')k++;
```

```
    swap(n[0],n[k]);
```

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```
cout << n << " ";
```

```
for(int i=0;i<strlen(n)-1;i++)
```

```
for(int j=0;j<strlen(n)-1;j++)
```

```
if(n[j]<n[j+1])swap(n[j],n[j+1]);
```

```
cout << n << endl;
```

```
return 0;
```

```
}
```

```
//b
```

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{long long int n,m,temp;
```

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---

```
int k=0;
```

```
cin>>n>>m;
```

```
for(int i=n;i<=m;i++)
```

```
{
```

```
temp=i;
```

```
while (temp%2==0) temp=temp/2;
```

```
while (temp%3==0) temp=temp/3;
```

```
while (temp%5==0) temp=temp/5;
```

```
if (temp==1) k++;
```

```
}
```

```
cout << k << endl;
```

```
return 0;
```

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---

```
}
```

```
//e
```

```
#include <iostream>
```

```
#include <string.h>
```

```
#include <string>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
char *n=new char[200000000];
```

```
cin>>n;
```

```
for(int j=0;j<strlen(n);j++)
```

```
if(n[j]>='0'&& n[j]<='9')cout<<n[j];
```

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---

```
cout << endl;
```

```
return 0;
```

```
}
```

```
//c
```

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{long long int n,minn;
```

```
int a[100000];
```

```
cin>>n;
```

```
for(int i=1;i<=n;i++) cin>>a[i];
```

```
minn=2000;
```

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---

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

```
if(a[i]<minn && a[i]>0) minn=a[i];
```

```
if(minn==2000) cout << 0 << endl; else cout << minn << endl;
```

```
return 0;
```

```
}
```

```
//f
```

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{long long int n,k,f,a,b,black,white;
```

```
int r[10000];
```

```
cin>>n;
```



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---

```
for(int i=1;i<=n;i++){
```

```
cin>>k;
```

```
white=0;black=0;
```

```
for(int j=1;j<=k;j++)
```

```
{
```

```
cin>>a>>b;
```

```
if ((a%2==0 && b%2==0) || (a%2==1 && b%2==1 )) black++; else white++;
```

```
}
```

```
if (white==k || black==k)r[i]=1;else r[i]=0;
```

```
}
```

```
for(int i=1;i<=n;i++)cout<<r[i];
```

```
cout << endl;
```

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```
return 0;
```

```
}
```