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Q1. Important pages on CodeChef.

Code:

```
#include <bits/stdc++.h> using
namespace std;

// INT HERE MEANS LONG LONG

#define int long long
#define endl '\n'
```

```
int32_t main(){
ios_base::sync_with_stdio(false);
cin.tie(NULL);

    int a,b;

    cin>>a>>b;

    if(a==1 && b==1)
    {
        cout<<"https://discuss.codechef.com";
    }
    else
    {
        if(a==1)
```

```

cout<<"https://www.codechef.com/contests";


else

cout<<"https://www.codechef.com/practice";
}

return 0;
}

```

Output:

Problem Solver Badge
5 / 50


Next Problem

Solve 45 more problems to get Bronze Badge

Status : Successfully executed

Time:

0.006376 secs

Memory:

5.436 Mb

Input

1 1

Output

https://discuss.codechef.com

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Q2. Fire and Ice.

Code:

```

#include <stdio.h> #include<inttypes.h> void
multiply(uint64_t F[2][2], uint64_t M[2][2],uint64_t k); void
power(uint64_t F[2][2], uint64_t n,uint64_t k);
uint64_t fib(uint64_t n,uint64_t k)

```

```

{ uint64_t F[2][2] =
{ {1,1},{1,0} }; if (n == 0) return
0; power(F, n-1,k); return
F[0][0]; }


void power(uint64_t F[2][2], uint64_t n,uint64_t k)
{ if( n == 0 || n == 1) return;
uint64_t M[2][2] = { {1,1},{1,0} };
power(F, n/2,k);

multiply(F, F,k);
if (n%2 != 0)
multiply(F, M, k);
} void multiply(uint64_t F[2][2], uint64_t M[2][2],uint64_t
k)
{
uint64_t x = (F[0][0]*M[0][0] + F[0][1]*M[1][0])%k;
uint64_t y = (F[0][0]*M[0][1] + F[0][1]*M[1][1])%k;
uint64_t z = (F[1][0]*M[0][0] + F[1][1]*M[1][0])%k;
uint64_t w = (F[1][0]*M[0][1] + F[1][1]*M[1][1])%k;
F[0][0] = x;

F[0][1] = y;
F[1][0] = z;
F[1][1] = w; } int
main() { uint64_t
n,k,t;

```

```
scanf("%llu",&t);
while(t--) {
scanf("%llu",&n);
scanf("%llu",&k); printf("%llu\n",
(2*fib(n,k))%k);
} return
0; }
```

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Solve 42 more problems to get Bronze Badge

Status: ✓ Correct Answer
Submission ID: [84621414](#)

Time:
0.58s

Sub-Task	Task #	Result (time)
1	0	AC (0.323903)
Subtask Score: 10.00%		Result - AC
2	1	AC (0.560431)
Subtask Score: 30.00%		Result - AC

Q3. Mixtures

Code:

```
#include<climits>

#include <iostream>

using namespace std;
```

```

int mins[101][101];
int m[100]; int
mixs(int s,int e)
{ int sm=0;
for(int i=s;i<=e;i++)
{

    sm+=m[i];
sm%=100;

}

return sm;

}
int calmins(int s,int e){
if(s>=e) { return
0;
}
if(mins[s][e]>-1){
return mins[s][e];
}
mins[s][e] = INT_MAX;
for(int i=s;i<=e;i++)
{

```

```

        mins[s][e]=min(mins[s][e],calmins(s,i)+calmins(i+1,e)+mixs(s,i)*mixs(i+1,e));
    }
    return mins[s][e];
}

int main() {

#ifdef ONLINE_JUDGE
    freopen("input.txt","r",stdin);
    freopen("output.txt","w",stdout); #endif
    int n;
    while(cin>>n){
        for(int i=0;i<n;i++){
            for(int j=0;j<n;j++){
                mins[i][j]=-1;
            }
        }
        for(int i=0;i<n;i++){
            cin>>m[i];
        }
        cout<<calmins(0,n-1)<<endl;
    }


    return 0;
}

```


}

Problem Solver Badge

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Solve **41** more problems to get Bronze Badge


Status:  Correct Answer

Submission ID: [84621929](#)

Time:

0.06s

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Q4. Binod and Chocolates Code:

```
#include <bits/stdc++.h>


using namespace std; int
main() {
    int t;
    cin>>t; while(t-->0)
    {
        int a, b;
        cin>>a>>b;
        int sum = a + b;
        if(a%3 == 0) {
            cout<<"YES"<<endl;
        }
        else if(b%3 == 0) {
```

```

        cout<<"YES"<<endl;
    }
    else if(sum%3 == 0) {
cout<<"YES"<<endl;
    }
    else {
cout<<"NO"<<endl;
    }
    }
    return 0;
}

```

Output:

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Solve 40 more problems to get Bronze Badge

Status: ✔ Correct Answer
Submission ID: [84622571](#)

Time:
0.00s

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Q5. Special Fibonacci Code:

```

#include <iostream>

using namespace std;

```



```
int bitwise(int num,int a,int b)
```

```
{    if(num==0)
```

```
{
```

```
return a;
```

```
}
```

```
    if(num==1)
```

```
{
```

```
return b;
```

```
}
```

```
    if(num==2)
```

```
{
```

```
        return (a^b);
```

```
}
```

```
    return bitwise(num%3,a,b);
```

```
}
```

```
int main() {
```

```
    int a,b;
```

```
    int n;
```

```
    cin>>n; int num;
```

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

```
{
```

```

        cin>>a>>b;

cin>>num;


        cout<<bitwise(num,a,b)<<"\n";

    }


    return 0;

}

```

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Solve 39 more problems to get Bronze Badge

Status:  Correct Answer
Submission ID: [84622879](#)

Time:
0.01s

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Q6. Gold Mining Code:

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

```

int main(void) {

    // your code goes here

    int t,n,x,y;

    scanf("%d",&t);

    while(t--) {

        scanf("%d %d %d",&n,&x,&y);
    }
}


```

```

        if((n+1)*y>=x)
printf("YES\n");
        else
            printf("NO\n");
    }

    return 0;
}

```

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Next Problem

Solve 38 more problems to get Bronze Badge

Status: ✓ Correct Answer
Submission ID: [84623184](#)

Time:
0.00s

Sub-Task	Task #	Result (time)
1	1	AC (0.003059)
1	2	AC (0.003266)
1	3	AC (0.003305)
Subtask Score: 100.00%		Result - AC

Q7. Chef on Vacation

```

#include <iostream>

using namespace std;

int main() {

    int t;

```

```
    cin>>t;
while(t-->0)
{
    int
    x,y,z;

    cin>>x>>y>>z;

    if(x+y<=z)
        cout<<"YES"<<endl;
    else
        cout<<"NO"<<endl;

}

// your code goes here return 0;

}
```

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Solve 37 more problems to get Bronze Badge



Next Problem

Status: ✓ Correct Answer

Submission ID: [84623424](#)

Time:

0.01s

Sub-Task	Task #	Result (time)
1	0	AC (0.003935)
1	1	AC (0.005820)
Subtask Score: 100.00%		Result - AC
Total Score = 100.00%		