

7.23CF加训

莫名感觉CF的架构比牛客不容易上手，总之用起来有点艰难.....

贴一个补题吧：

B

不知为何GNU C11始终过不了，但是GNU C++ 17就可以.....不知哪里出了问题。

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

const double pi=acos(-1);

int n;
double g[15],l[15],k[15];

double Sin(double k)
{
    return (k>0?-1:1)*sqrt((k*k)/(1+(k*k)));
}

double Cos(double k)
{
    return sqrt(1/(1+(k*k)));
}

double solve(double k0,double kn)
{
    double c=(k0-kn)/(g[n]-g[0]+g[n-1]-g[1]),rt=0;
    int i;
    for(i=1;i<=n;i++)
    {
        k[i]=kn+c*(g[n]-g[i-1]+g[n-1]-g[i]);
        rt+=l[i]*Sin(k[i]);
    }
    return rt;
}

double judge(double k0)
{
    double ll=-pi/2,rr=0,mid;
    while((rr-ll)>3e-16)
    {
        mid=(ll+rr)/2;
        (solve(tan(k0),tan(mid))>0)?(rr=mid):(ll=mid);
    }
}
```

```
}  
double rt=0;  
int i;  
for(i=1;i<=n;i++)  
{  
    rt+=l[i]*Cos(k[i]);  
}  
return rt;  
}  
  
int main()  
{  
    double L;  
    scanf("%d%lf",&n,&L);  
    int i;  
    for(i=1;i<=n;i++)  
    {  
        scanf("%lf",&l[i]);  
        g[i]=g[i-1]+l[i];  
    }  
    double ll=0,rr=pi/2,mid;  
    while((rr-ll)>3e-16)  
    {  
        mid=(ll+rr)/2;  
        (judge(mid)<L)?(rr=mid):(ll=mid);  
    }  
    double x=0,y=0;  
    for(i=1;i<n;i++)  
    {  
        x+=l[i]*Cos(k[i]);  
        y+=l[i]*Sin(k[i]);  
        printf("%.10lf %.10lf\n",x,y);  
    }  
    return 0;  
}
```

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