

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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