

Ubuntu Pastebin

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```
1 int main()
2 {
3     int t,cas=1,n;
4     scanf("%d",&t);
5     while(t--)
6     {
7         scanf("%d",&n);
8         rep(i,n) scanf("%lld%lld",&x[i],&y[i]);
9         ll b=0,x1,y1,x2,y2,area=0;
10        rep(i,n)
11        {
12            x1=x[i];
13            y1=y[i];
14            x2=x[(i+1)%n];
15            y2=y[(i+1)%n];
16            area+=(x1*y2-x2*y1);
17            b+=(gcd(abs(x1-x2),abs(y1-y2))-1);
18        }
19        b+=n;
20        area=abs(area);
21        ll ans=area+2-b;
22        ans/=2;
23        printf("Case %d: %lld\n",cas++,ans);
24    }
25    return 0;
26 }
```

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