## Solution

将问题转化为平面上的几何问题：

从坐标(0,0)开始，将白色方块看作向右走一个单位长度，将黑色方块看作向上走一个单位长度。

现我们以2W, 3B, 1W, 3B, 4W, 2B, 1W为例，得到如下图形

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连结起点和终点，问题就可以转化为求这条直线与路径在整点上的交点数 -1，可以在O(N)的时间内出解。

#include <bits/stdc++.h>

using namespace std;

inline int read()

{

int x = 0; char ch;

while (!isdigit(ch = getchar()));

do x = x \* 10 + ch - '0'; while(isdigit(ch = getchar()));

return x;

}

#define N 100005

int test, n, x[N]; char t[N];

int main()

{

freopen("silly.in", "r", stdin);

freopen("silly.out", "w", stdout);

test = read();

while (test--)

{

n = read();

int cw = 0, cb = 0;

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

{

x[i] = read(); t[i] = getchar();

(t[i] == 'W' ? cw : cb) += x[i];

}

if (!(cw && cb))//只有一种字符，字符个数即为份数

{ printf("%d\n", cw + cb); continue; }

int d = \_\_gcd(cw, cb), tw = 0, tb = 0, ans = 0;

cw /= d; cb /= d;

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

{

if (t[i] == 'W')

{

if (tb % cb) { tw += x[i]; continue; }

int t = tb / cb \* cw;

if (tw < t && t <= tw + x[i]) ++ans;

tw += x[i];

}

else

{

if (tw % cw) { tb += x[i]; continue; }

int t = tw / cw \* cb;

if (tb < t && t <= tb + x[i]) ++ans;

tb += x[i];

}

}

printf("%d\n", ans);

}

return 0;

}