QUESTION:

REAL ESTATE IS THE PROPERTY CONSISTING OF LAND AND BUILDING

SOLUTION IN ‘C’ LANGUAGE

#include<stdio.h>

int main()

{

int t;

scanf("%d",&t);

while(t-->0) {

int n;

scanf("%d",&n);

int arr[n][2], min, max;

min = 9999;

max = -9999;

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

int x,y,h;

scanf("%d%d%d",&x,&y,&h);

arr[i][0] = y-x;

arr[i][1] = h;

if(y-x < min)

min = y-x;

if(y-x > max)

max = y-x;

}

int l = min;

int r = max;

int flag = 0;

while(l<= r) {

int mid = (l+r)/2;

int topLeftSum = 0;

int buttonRightSum = 0;

int equal = 0;

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

if(arr[i][0] > mid)

topLeftSum = topLeftSum + arr[i][1];

else if(arr[i][0] < mid)

buttonRightSum = buttonRightSum + arr[i][1];

else

equal = equal + arr[i][1];

}

if(buttonRightSum == topLeftSum) {

flag = 1;

break;

}

buttonRightSum+=equal;

if(buttonRightSum>topLeftSum)

r = mid - 1;

else if(buttonRightSum<topLeftSum)

l = mid + 1;

else {

flag=1;

break;

}

}

if(flag)

printf("YES\n");

else

printf("NO\n");

}

}