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#include <iostream>
#include <assert.h>
#include <stdio.h>
using namespace std;
static FILE *fin, *fout;
int N,K,T,i;
int f=0; // flag di controllo
int *vettore;
int verifiche(int [], int );

int main(int argc, char** argv) {
    fin=fopen("input.txt", "r");
    assert(3==fscanf(fin, "%d""%d""%d""\n", &N, &T, &K));
    vettore = new int[N];
    for(i=0; i<N; i++) assert(1==fscanf(fin, "%d", vettore+i));
    fclose(fin);

    fout=fopen("output.txt", "w");
    fprintf(fout, "%d", verifiche(vettore, N));
    fclose(fout);
    return 0;
}
//sottoprogramma
int verifiche(int v[], int N )
{
    if(T<K)
        return -1;
    else
        if(N==1)
            return K;
        else{
            int c=K;
            for(int i=0; i<N-1;i++){
                if(T==K)
                    if((v[i+1]-v[i])==1)

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        c++;
    else{
        if((v[i+1]-v[i])>T)
            c+=K;
        else
            c+=(v[i+1]-v[i]);
    }
else{
    if((v[i+1]-v[i])>T)
        c+=K;
    else{
        if((f==0)&&(v[i+1]-v[i])>=T-K){
            if(i==0)
                c-=1;
            f=1;
        }

        if((v[i+1]-v[i])>=T-K)
            c+=(v[i+1]-v[i]);
    }
}
}
return c;
}
}

```