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PROG: job

LANG: C++

ID: hayk.sa1

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#include

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using namespace std;

int n;

struct job

{

int d;

long long p;

} j[100010];

bool operator < (job a, job b)

{

return a.p > b.p || a.p == b.p && a.d > b.d;

}

int d[200010];

int sum(int p, int q)

{

int s = 0;

for (p--; p > 0; p-=((p^(p-1))+1)>>1)

s -= d[p];

while (q > 0)

{

s += d[q];

q -= ((q^(q-1))+1)>>1;

}

return s;

}

void add(int p)

{

while (p <= 2\*n)

{

d[p]++;

p += ((p^(p-1))+1)>>1;

}

}

int main()

{

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

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

int p, q, k, i;

long long ans = 0;

scanf("%d", &n);

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

scanf("%d%lld", &j[i].d, &j[i].p);

sort(j, j+n);

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

if (j[i].d > 2\*n)

ans += j[i].p;

else

{

if (sum(1, j[i].d) == j[i].d)

continue;

p = 1;

q = j[i].d;

while (q-p > 1)

{

k = (p+q)>>1;

if (sum(k, j[i].d) == j[i].d-k+1)

q = k;

else

p = k;

}

if (sum(q, q) == 0)

p = q;

add(p);

ans += j[i].p;

}

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

return 0;

}