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PROG: graze2

LANG: C++

ID: hayk.sa1

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#include

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using namespace std;

#define inf 1000000000

int sw;

int p[2010];

int d[2][2010];

int main()

{

freopen("graze2.in", "r", stdin);

freopen("graze2.out", "w", stdout);

int n, s, l, i, j;

scanf("%d%d", &n, &s);

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

scanf("%d", p+i);

sort(p, p+n);

l = (s-1)/(n-1);

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

d[sw][i] = inf;

d[sw][1] = p[0]-1;

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

{

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

d[sw^1][j] = inf;

for (j = 1; j <= i+1; j++)

{

if (d[sw^1][j] > d[sw][j]+abs(i\*l+j-p[i]))

d[sw^1][j] = d[sw][j]+abs(i\*l+j-p[i]);

if (j > 1 && d[sw^1][j] > d[sw][j-1]+abs(i\*l+j-p[i]))

d[sw^1][j] = d[sw][j-1]+abs(i\*l+j-p[i]);

}

sw ^= 1;

}

printf("%d\n", d[sw][s-(n-1)\*l]);

return 0;

}