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PROG: cowfact

LANG: C++

ID: hayk.sa1

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#include <stdio.h>

#include <string.h>

#define Max(a, b) ((a)>(b)?(a):(b))

int d[100010];

int main()

{

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

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

int n, k, m, r, c, p, i, j;

scanf("%d%d%d%d", &n, &k, &m, &r);

memset(d, -1, sizeof(d));

d[0] = 0;

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

{

scanf("%d%d", &c, &p);

for (j = r-c; j >= 0; j--)

if (d[j] != -1)

d[j+c] = Max(d[j+c], d[j]+p);

}

j = -1;

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

if (d[i] >= k && (j == -1 || i\*d[j] < j\*d[i]))

j = i;

if (j == -1)

printf("-1\n");

else

printf("%d\n", (int)(1000\*(m-j\*1.0/d[j])));

return 0;

}