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PROG: cruel2

LANG: C++

ID: hayk.sa1

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#include

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#define eps 1e-5

#define inf 1000000.0

int d;

double c[15];

double f(double x)

{

int i;

double y=0.0;

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

y += pow(x, i)\*c[i];

return y;

}

int main()

{

freopen("cruel2.in", "r", stdin);

freopen("cruel2.out", "w", stdout);

int i;

double p, q, k, v;

scanf("%d", &d);

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

scanf("%lf", c+i);

if (c[d] < 0)

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

c[i] = -c[i];

p = -inf;

q = inf;

for (i = 0; i < 100000; i++)

{

k = (p+q)/2.0;

if (fabs(f(k)) <= eps)

break;

if (f(k) > 0.0)

q = k;

else

p = k;

}

printf("%d\n", (int)(k\*1000));

return 0;

}