## ПРИЛОЖЕНИЕ А

## Листинг программы

```
#include <iostream>
using namespace std;
typedef float128 f128;
static constexpr const f128 C x = 24.00;
static constexpr const f128 C_y = 6.00;
static constexpr const f128 BUDGET = 20.00;
static constexpr const f128 R 1 = 10.35;
static constexpr const f128 \mathbb{R}^{2} = 2.70;
f128 Ro(const f128 t)
      return R 1 + R 2 - R 1 * BUDGET / C x + (R 1 / C x - R 2 / C y) * t;
int main(void)
{
      static constexpr const f128 tMIN = 0.00;
      static constexpr const f128 tMAX = 6.00;
      static constexpr const f128 tSTEP = 0.0000005;
      f128 min_t = 0, min_v = Ro(min_t);
      f128 t = tMIN - tSTEP;
      \texttt{cout} << \texttt{"1}) t = " << (long double) \texttt{tMIN} << " \text{tRo} = " <math><< (long double) \texttt{tMIN} << " \text{throw}
double)Ro(tMIN) << endl;</pre>
      cout << "2) t = " << (long double)((tMIN + tMAX) / 2) << "\tRo = " <<
(long double)Ro((tMIN + tMAX) / 2) << endl;</pre>
      cout << "3) t = " << (long double) tMAX << "\tRo = " << (long
double)Ro(tMAX) << endl;</pre>
      while (true)
             if (t >= tMAX) break;
             t += tSTEP;
             f128 \text{ tmp} = Ro(t);
            if (tmp >= min v) continue;
            min t = t;
      cout << "Best t = " << (long double)min t << "\tRo = " << (long double)min t << "\trace" |
double)Ro(min t) << endl;</pre>
     return 0;
}
```