

C++ input: double a = 1234567890.1234567890123456789
double b = 0.12345678901234567890123456789

a = 0.1234567890 123456 7165374755859375000000000 x 10¹⁰
b = 0.123456 7890123456 77369886232100 x 10⁰

a+b = 0.1234567890 246913 4330749511718750000000000 x 10¹⁰
a = 0.1234567890 123456 7165374755859375000000000 x 10¹⁰

a+b-a = 0.123456 7165374755859375000000000 x 10⁰

After the 17th decimal, summation "stops": closest representable number is chosen