

A cutting-edge technology and analytics company focused on financial markets.

Founded in 2008, Istra Research develops proprietary trading algorithms. Using our unique technology and intimate understanding of the markets' microstructure opportunities, Istra has grown rapidly to become a leading firm in its field.

Technology is the driving force of our business. Our proprietary automated trading algorithms utilize advanced statistical methodologies and extremely low-latency/high-performance processing and network technologies.

We continually reinvest in R&D with the goal that our tools and methodologies remain at the forefront.

COC The Team

Istra is composed of top-notch professionals with backgrounds in a variety of fields including computer science, mathematics, statistics, physics and finance.

The core of our company is an elite highlyskilled group of experienced researchers and developers with experience in complex statistical analysis and Super-Fast computing. We enjoy engaging with some of the toughest Big-Data problems around and appreciate the fast feedback and vast opportunities of global finance.



We are Hiring!

As a growing company, Istra always looks for talented individuals who are passionate truth seekers and like to solve hard problems.

We offer generous and highly competitive compensation, exceptional culture, and great learning and professional growth opportunities.

Send us your CV careers@istraresearch.com



Stat2016 Istra Challenge

Let P_t be a time series, $P_{t+1} = \alpha * P_t + S_{t+1}$, where $S_t \sim N(0,\sigma^2)$. Consider the following game. In each round t, a player sees P_t and decides whether to bet or not. Once the player chooses to bet, he cannot withdraw his bet, nor can he bet again in a later round. The payoff of a bet that was placed in the n-th round is $P_n * sign(P_N)$, where N is the last round of the game. For $P_0 = 0$, N = 100, $\alpha = 0.8$ and $\sigma = 1$,

what is the expected value of the optimal strategy **?**

Submissions should be sent by June 1st 2016 to stat2016_puzzle@istraresearch.com

The submission should contain full name, contact information and the answer - number only please!



A cool prize will be raffled among the best solutions.