`atoi` Proof of Correctness Report – Team 2

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***Abstract*—TODO.**

***Index Terms*—Language-Based Security, Proof of Correctness, TODO**

I. Introduction

TODO (TODO)

II. Motivation

TODO

III. Problem Definition

TODO

A. Primal Point Generation

TODO

B. Dual Point Generation

TODO

C. Verification Algorithm Variant

TODO

D. Quadratic Residue Distribution

TODO

IV. Subtractive Quadratic Residue Sampling

TODO

V. Comparative Performance

TODO

A. Algorithm Througput

TODO

B. Algorithm "Uniform Randomness"

TODO

1) Chi-Squared Test: TODO
2) COV Measure: TODO
3) Mesh Ratio: TODO

VI. Future Work

TODO

VII. Conclusion

TODO