

# COVID-19s progression in Portugal



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March 2020

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## Introduction

This document is meant to provide a very simplified idea of the curve that translates the progression of the COVID-19 virus spreading in Portugal. As dataset grows (the number of samples increases) the graphics are increasingly trustworthy.

Please keep in mind that is a gross simplification of the subject.

The curve that is present is the exponential approximation to the provided dataset.

I assume that as long as we're below the pure exponential curve (we're sort of fine).

## Graphics: By the Day (since the first confirmed case)

Day 1

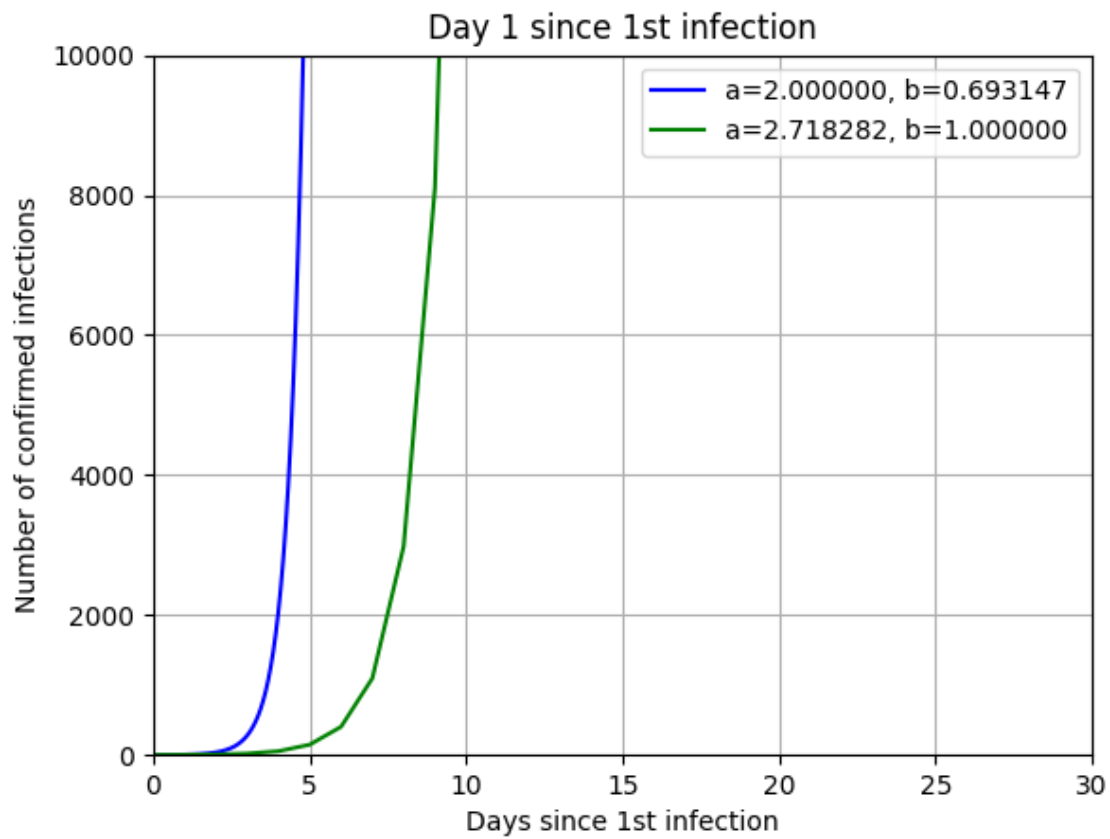


Figure 1: 1st day

Prediction for *day 2*: **8**

Verified: **6**

Error rate: **33.33%**

Day 2

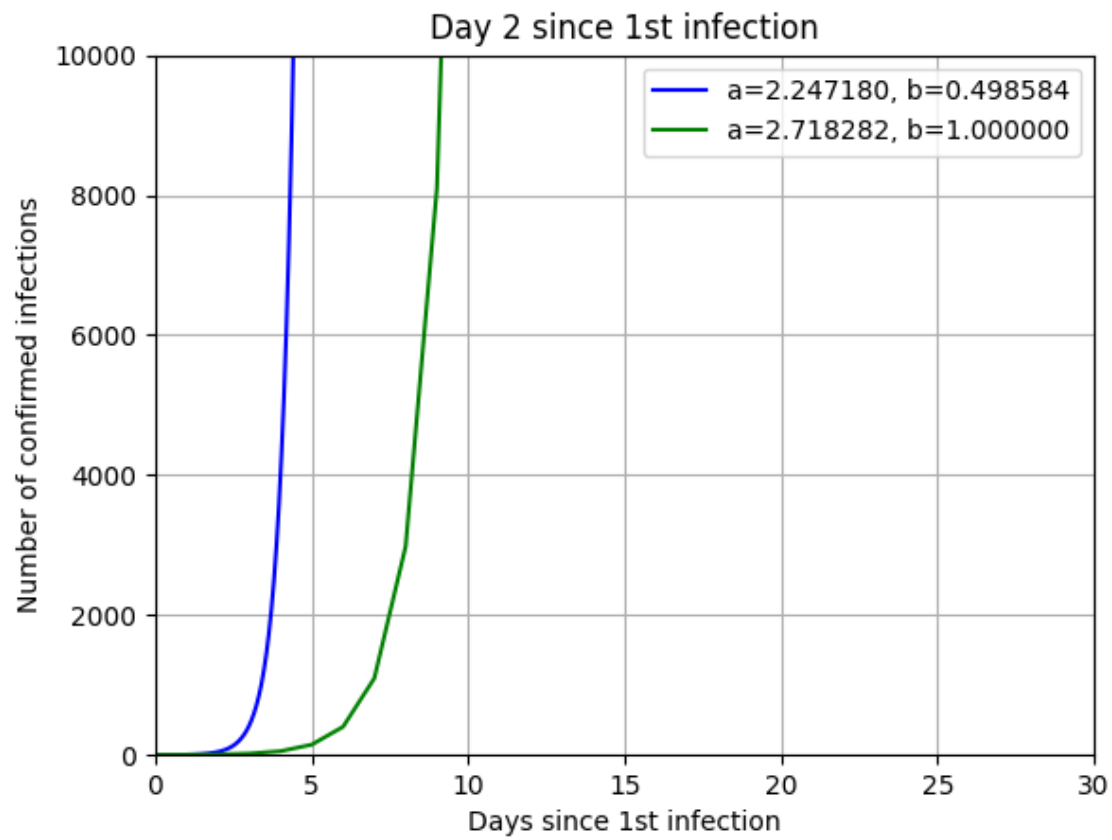


Figure 2: 2nd day

Prediction for *day 3*: **10**

Verified: **9**

Error rate: **11.11%**

Day 3

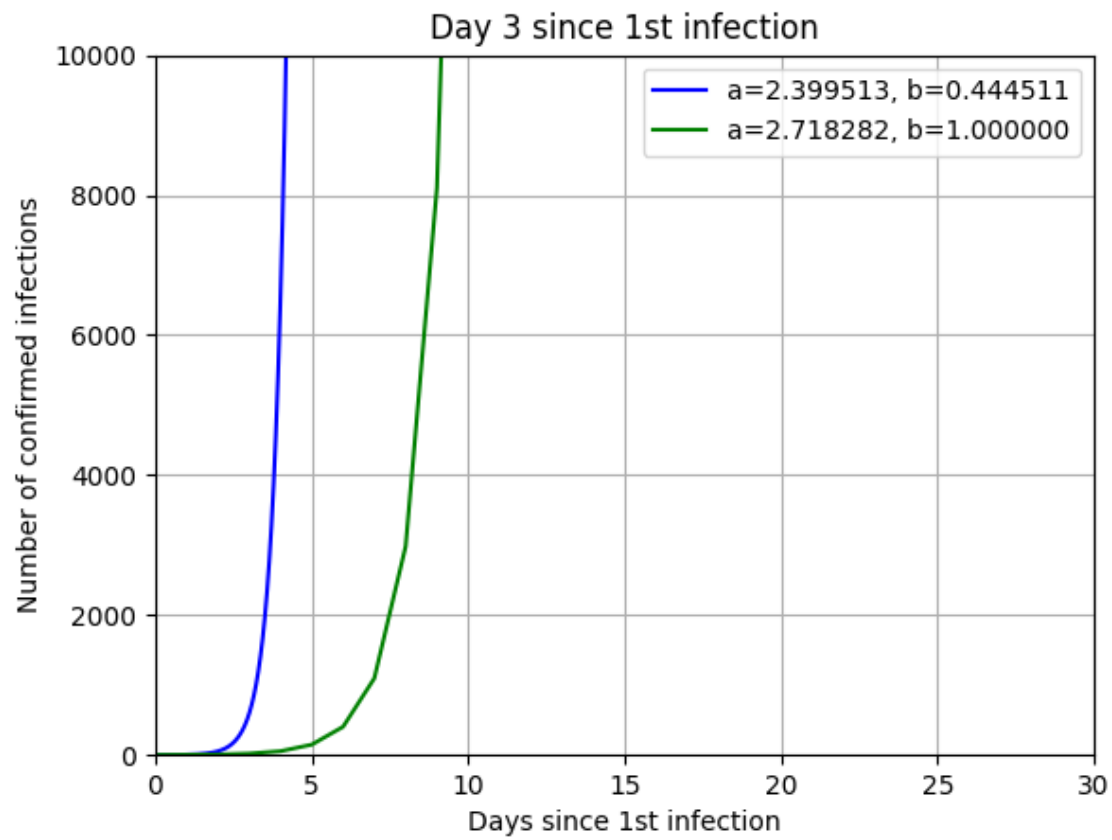


Figure 3: 3rd day

Prediction for *day 4*: **14**

Verified: **13**

Error rate: **7.69%**

Day 4

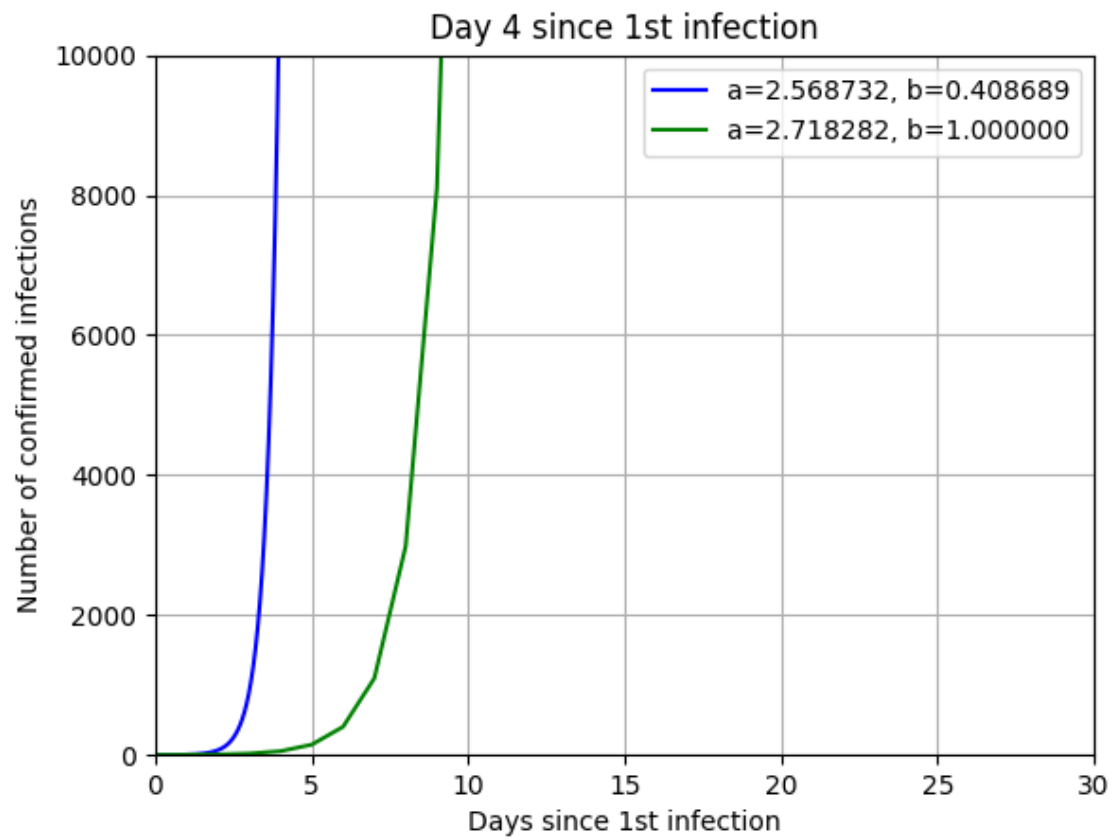


Figure 4: 4th day

Prediction for *day 5*: **20**

Verified: **21**

Error rate: **4.76%**

Day 5

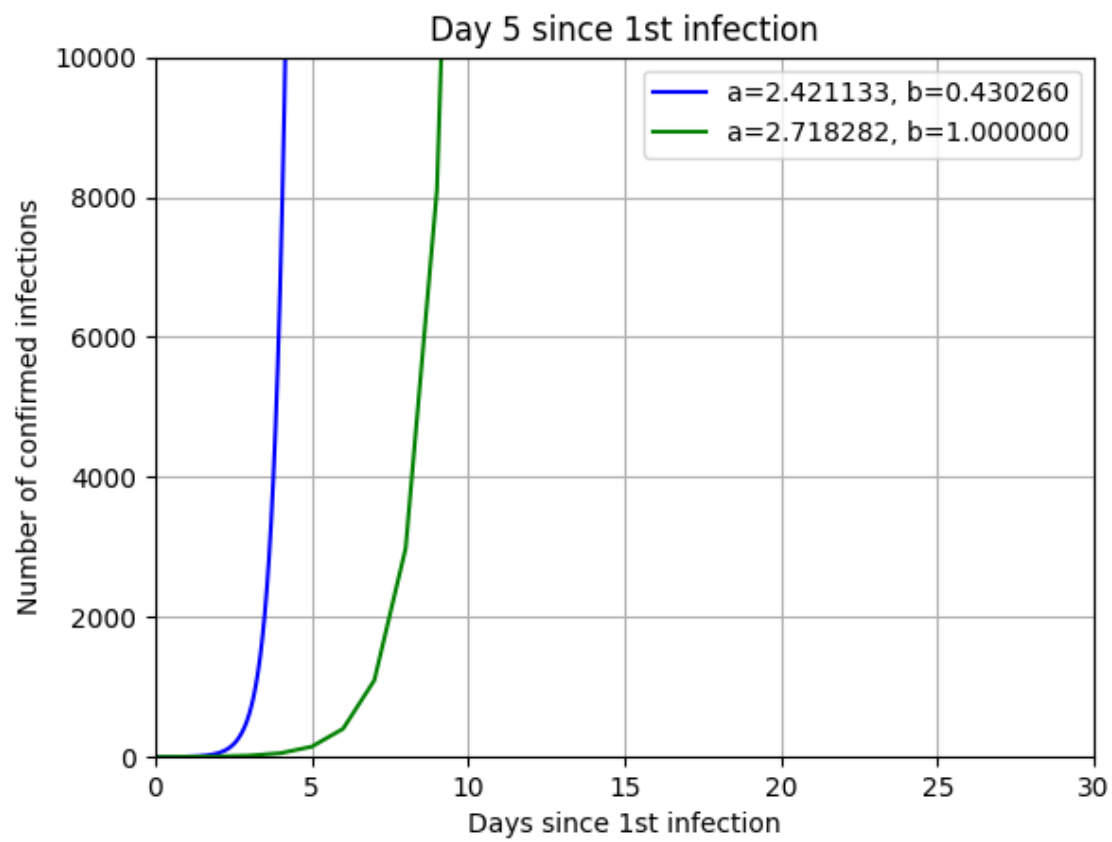


Figure 5: 5th day

Prediction for *day 6*: **32**

Verified: **30**

Error rate: **6.67%**



Day 6

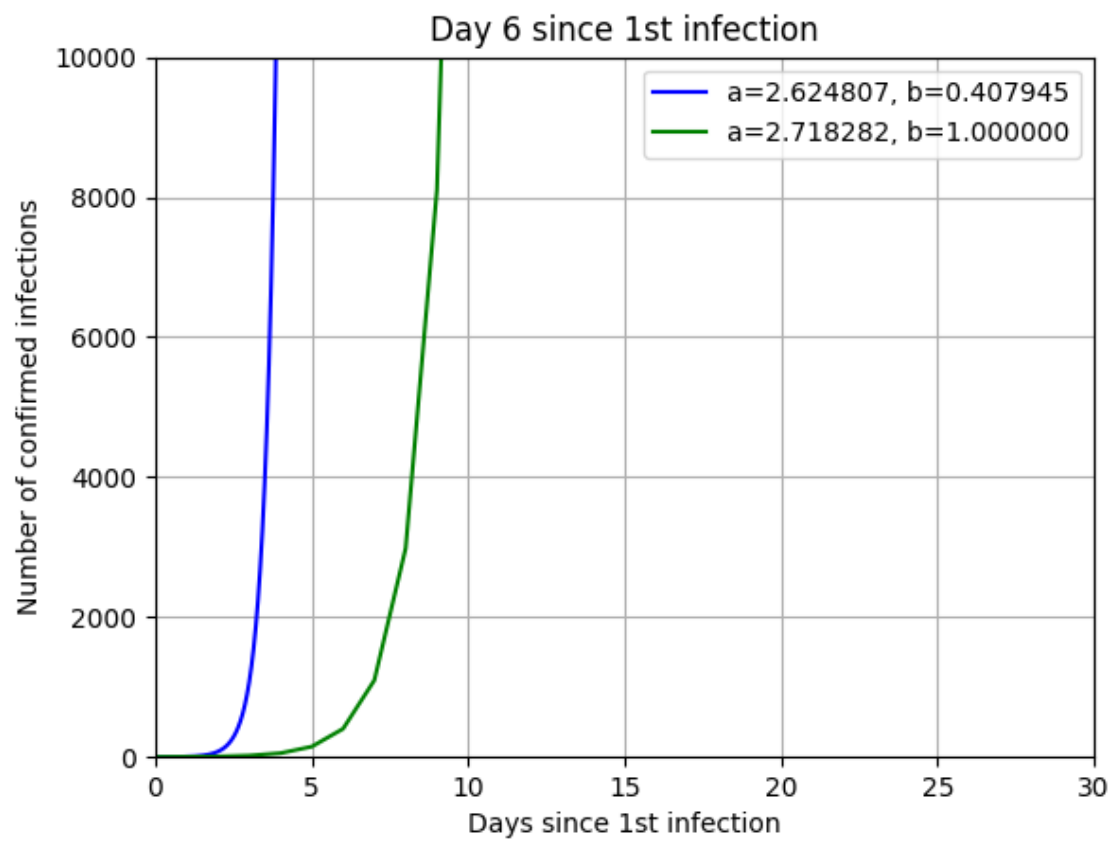


Figure 6: 6th day

Prediction for *day 7*: **46**

Verified: **39**

Error rate: **17.95%**

Day 7

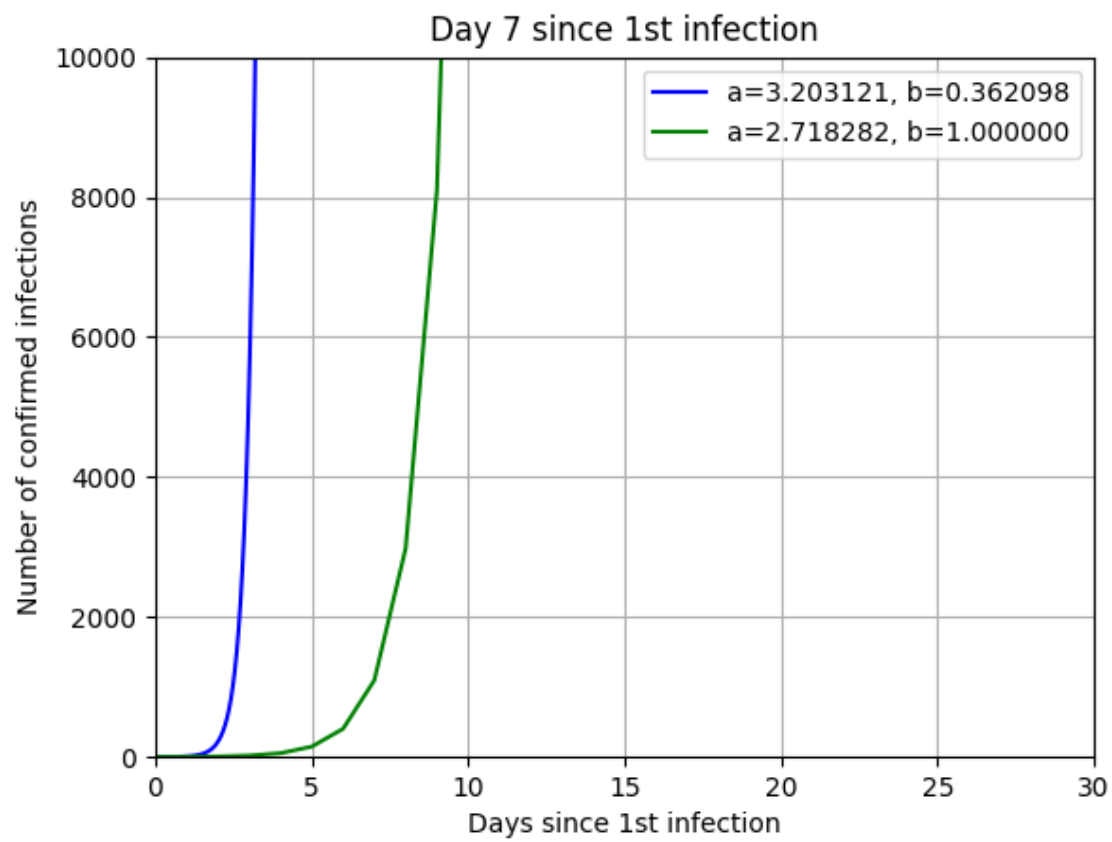


Figure 7: 7th day

Prediction for *day 8*: **58**

Verified: **41**

Error rate: **41.46%**

Day 8

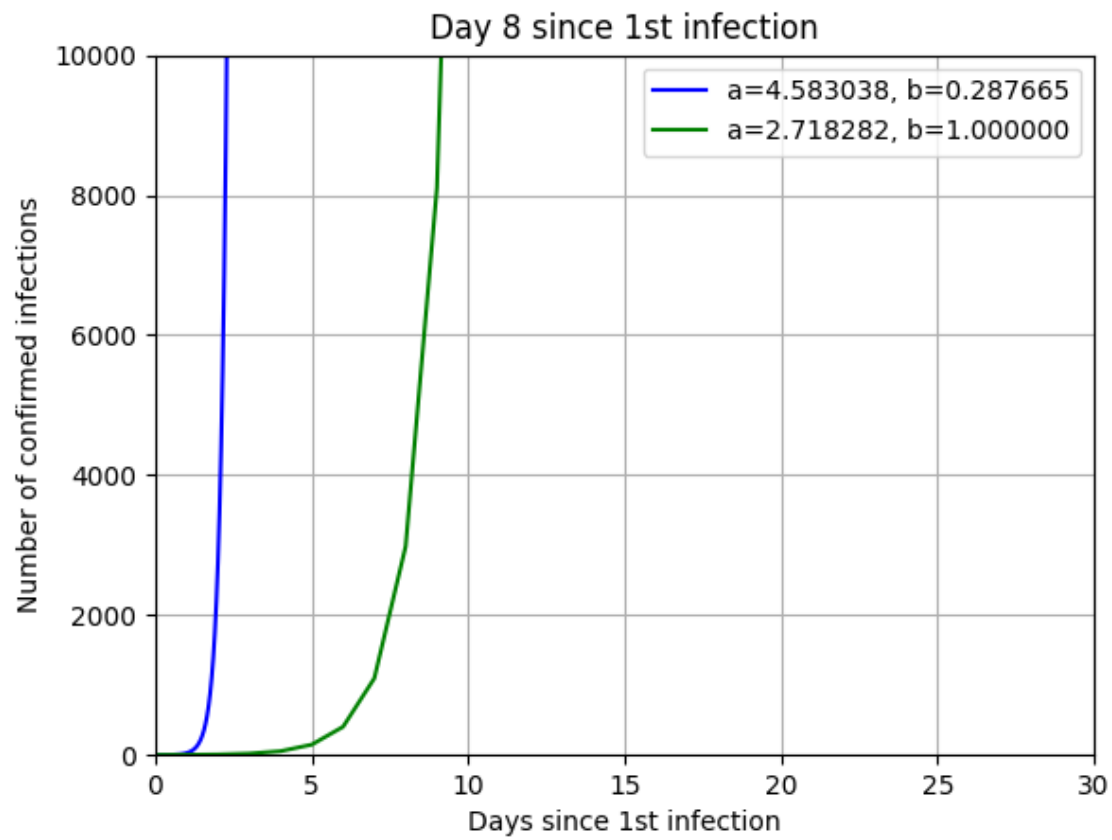


Figure 8: 8th day

Prediction for *day 9*: **61**

Verified: **59**

Error rate: **3.39%**

Day 9

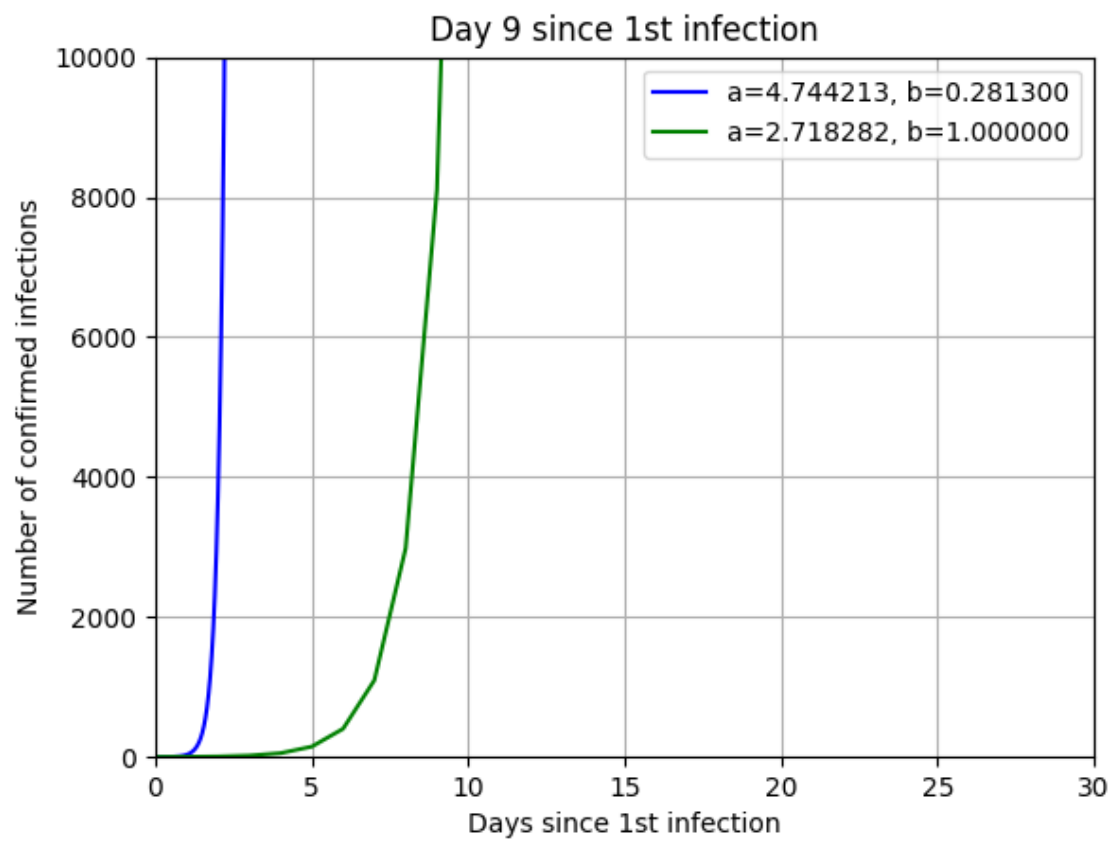


Figure 9: 9th day

Prediction for *day 10*: **79**

Verified: **78**

Error rate: **1.28%**

Day 10

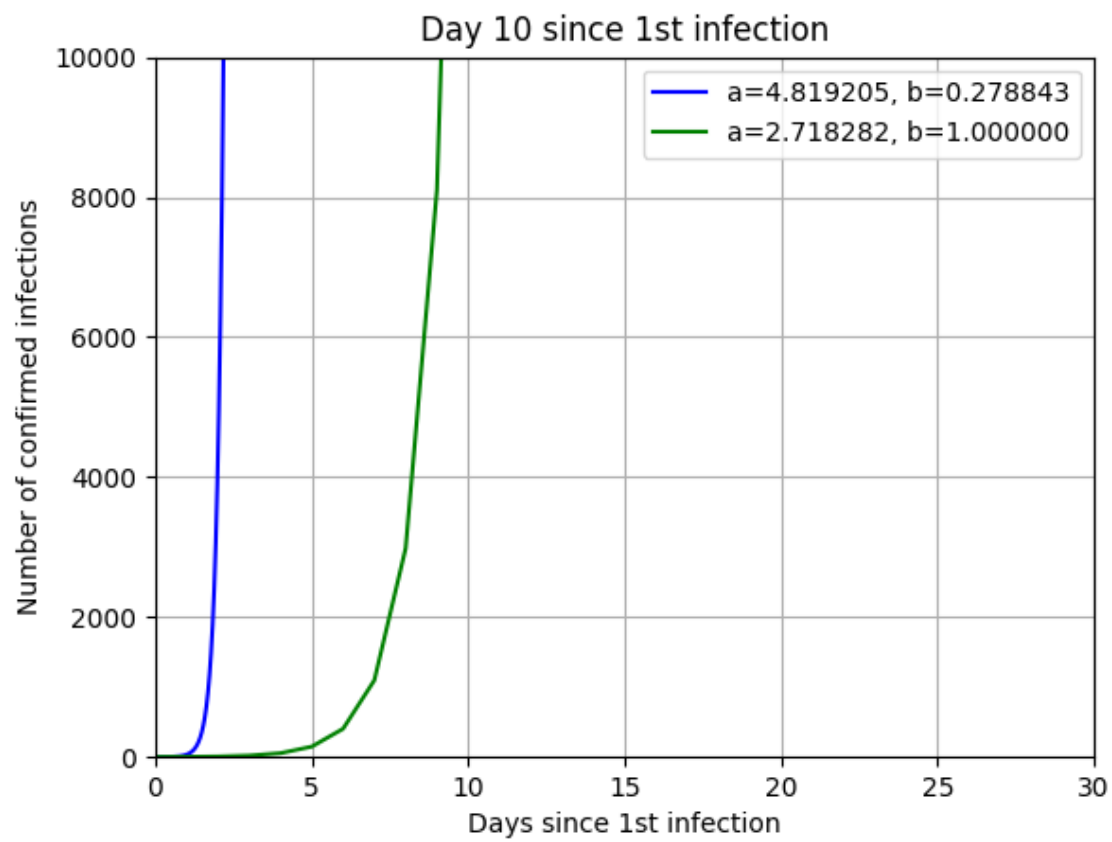


Figure 10: 10th day

Prediction for *day 11*: **104**

Verified: **112**

Error rate: **7.14%**

Day 11

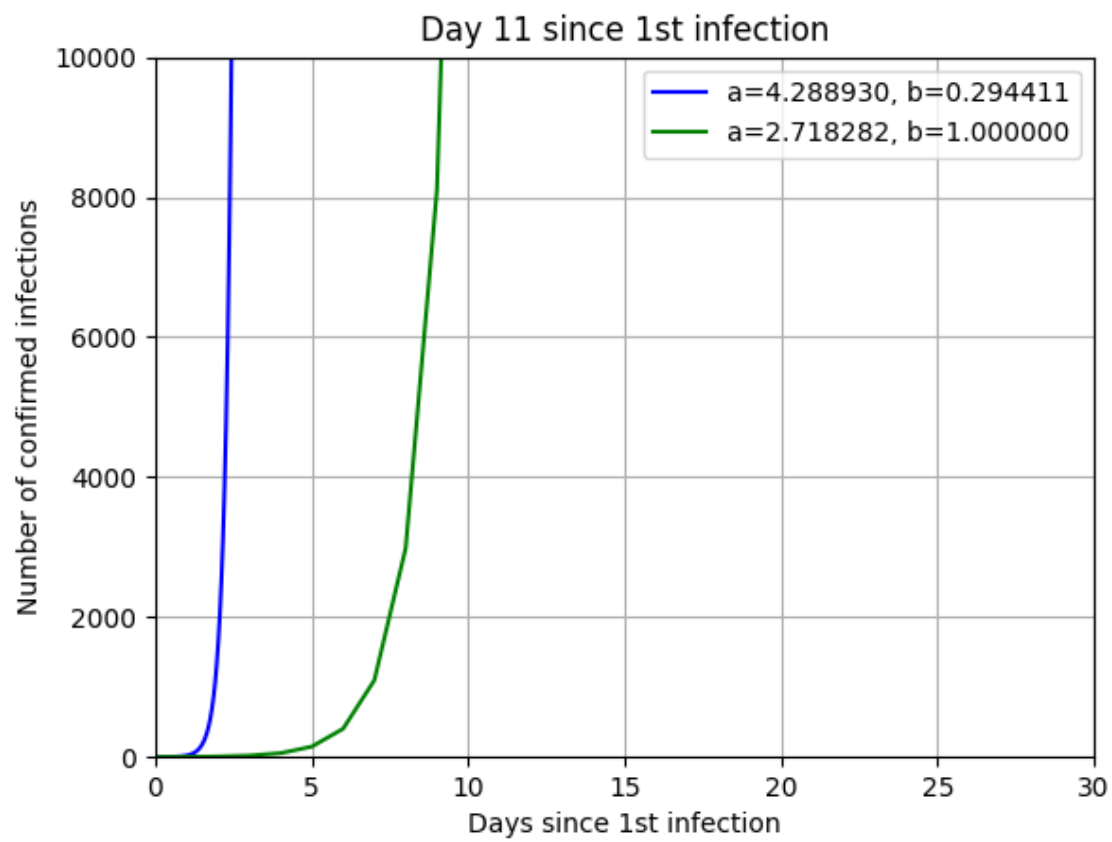


Figure 11: 11th day

Prediction for *day 12*: **147**

Verified: **169**

Error rate: **12.43%**

Day 12

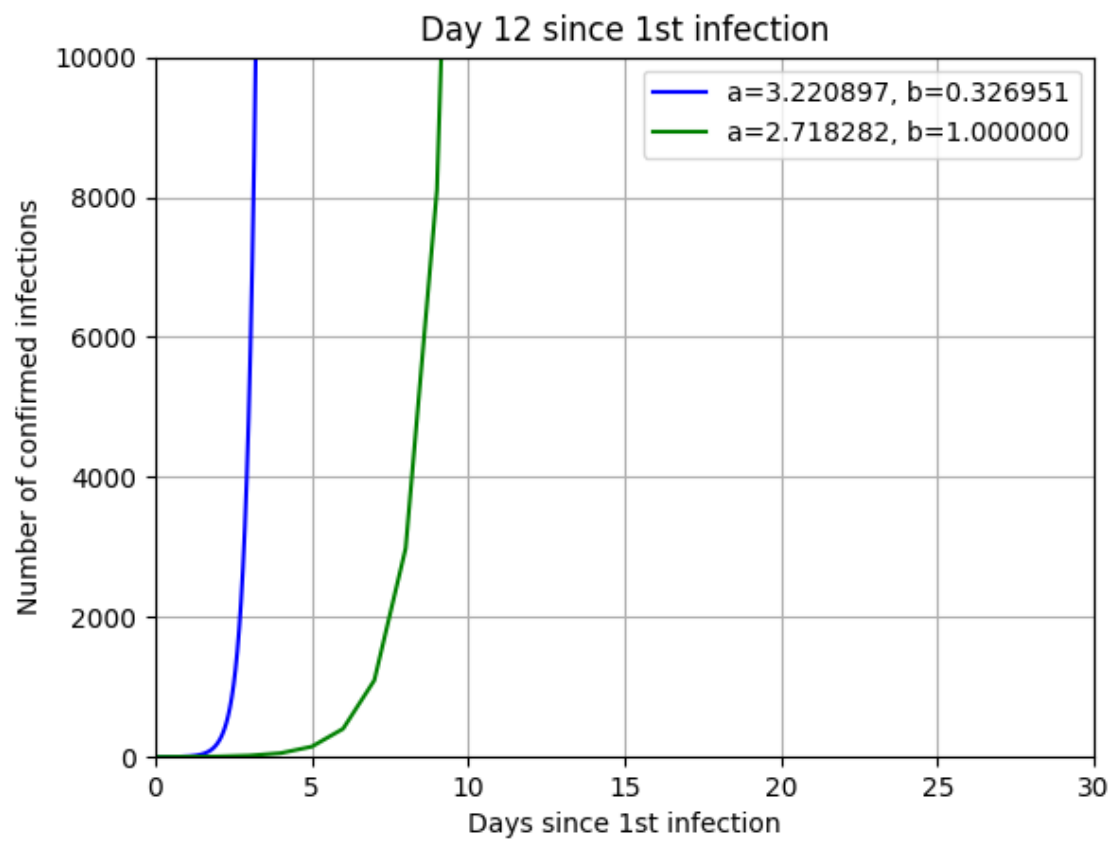


Figure 12: 12th day

Prediction for *day 13*: **226**

Verified: **245**

Error rate: **7.76%**

Day 13

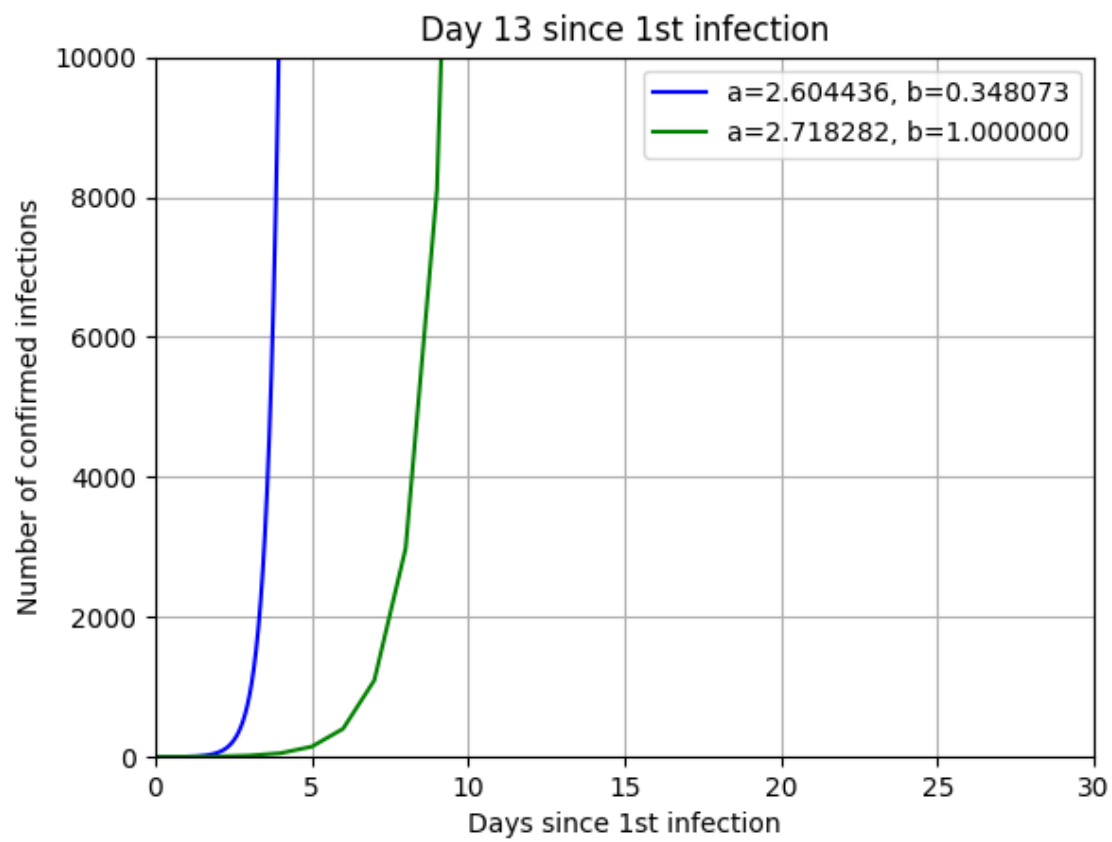


Figure 13: 13th day

Prediction for *day 14*: **340**

Verified: **331**

Error rate: **2.72%**



Day 14

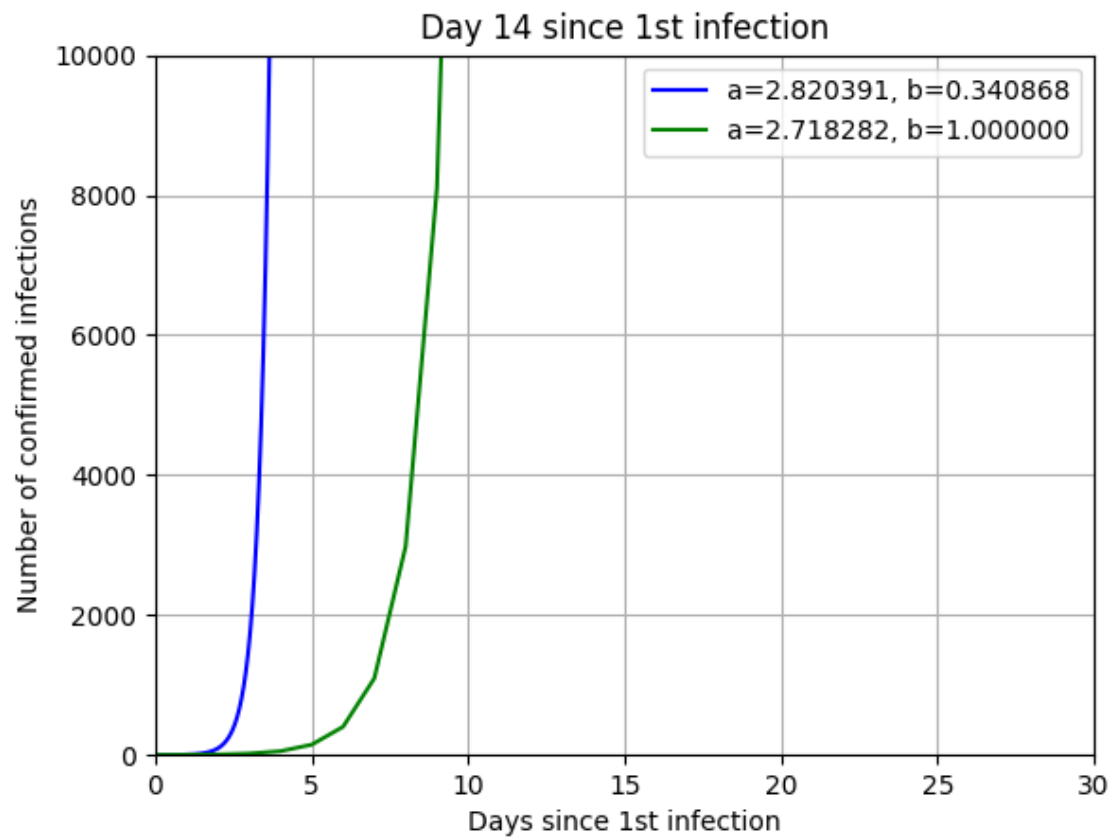


Figure 14: 14th day

Prediction for *day 15*: **469**

Verified: **448**

Error rate: **4.48%**

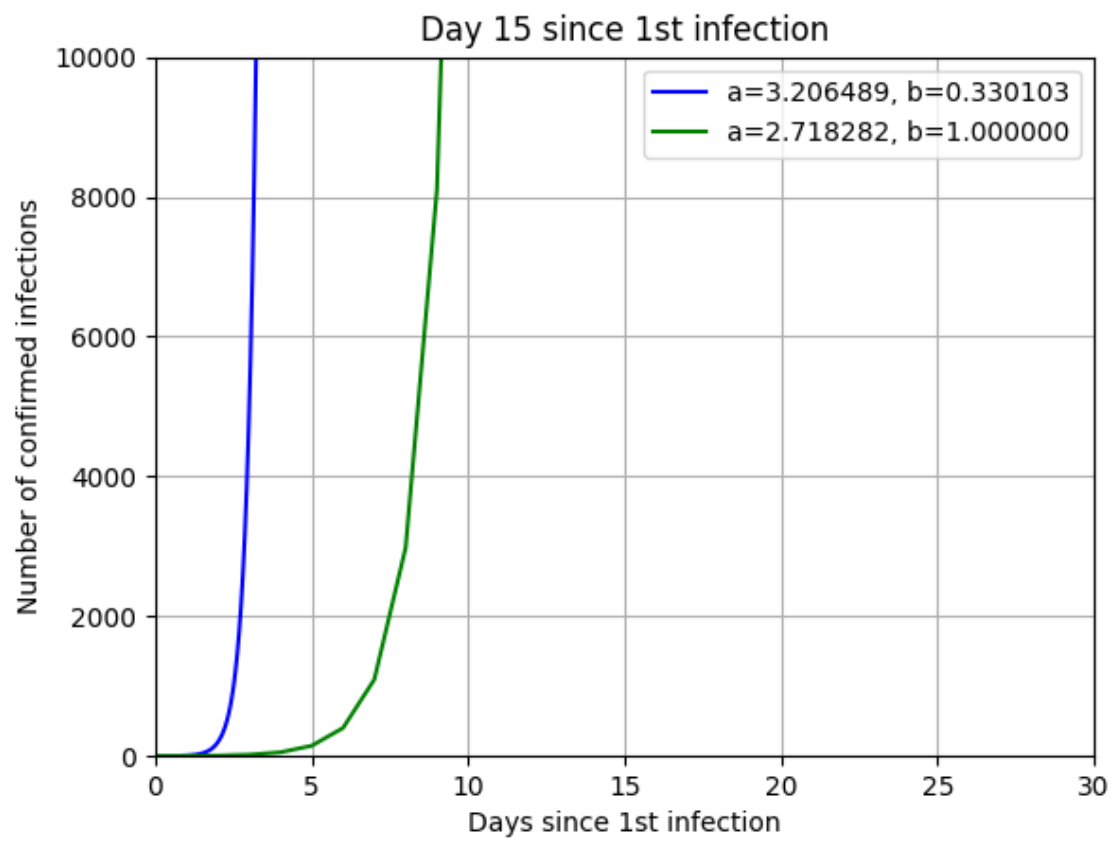


Figure 15: 15th day

Prediction for *day 16*: **639**

Verified: **642**

Error rate: **0.46%**

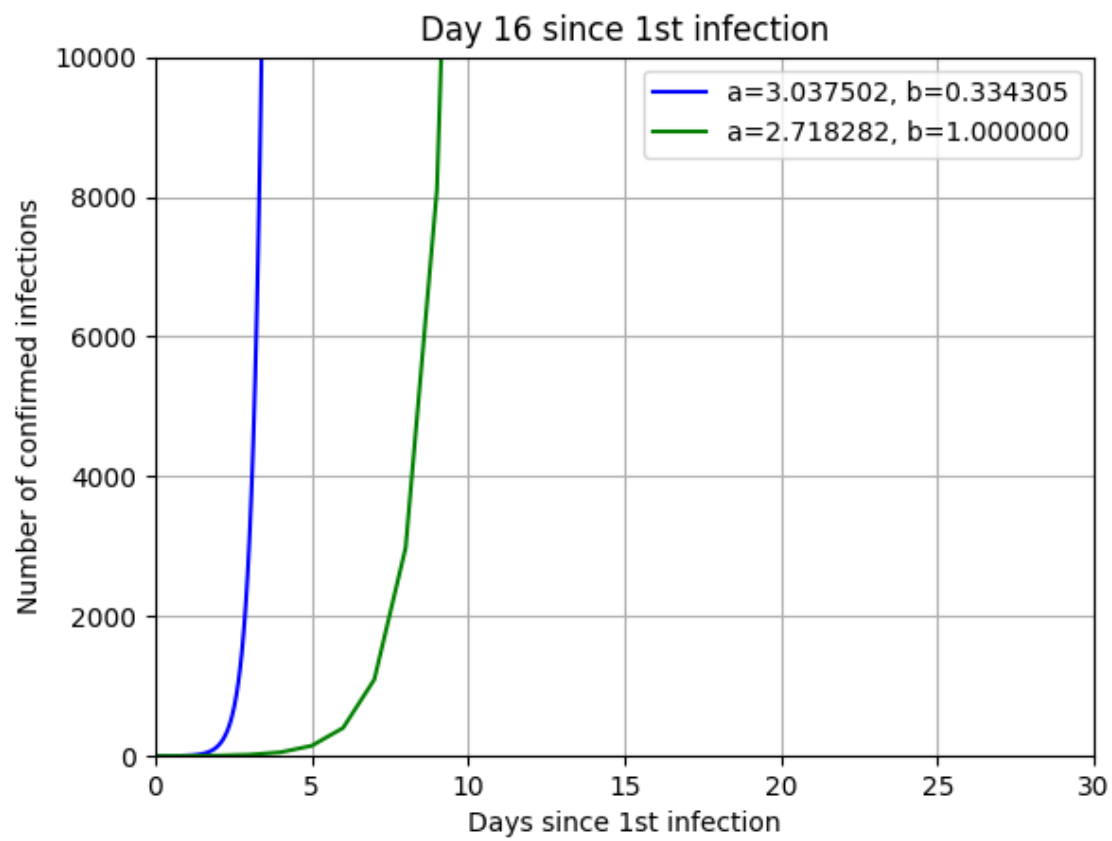


Figure 16: 16th day

Prediction for *day 17*: **893**

Verified: **785**

Error rate: **13.76**

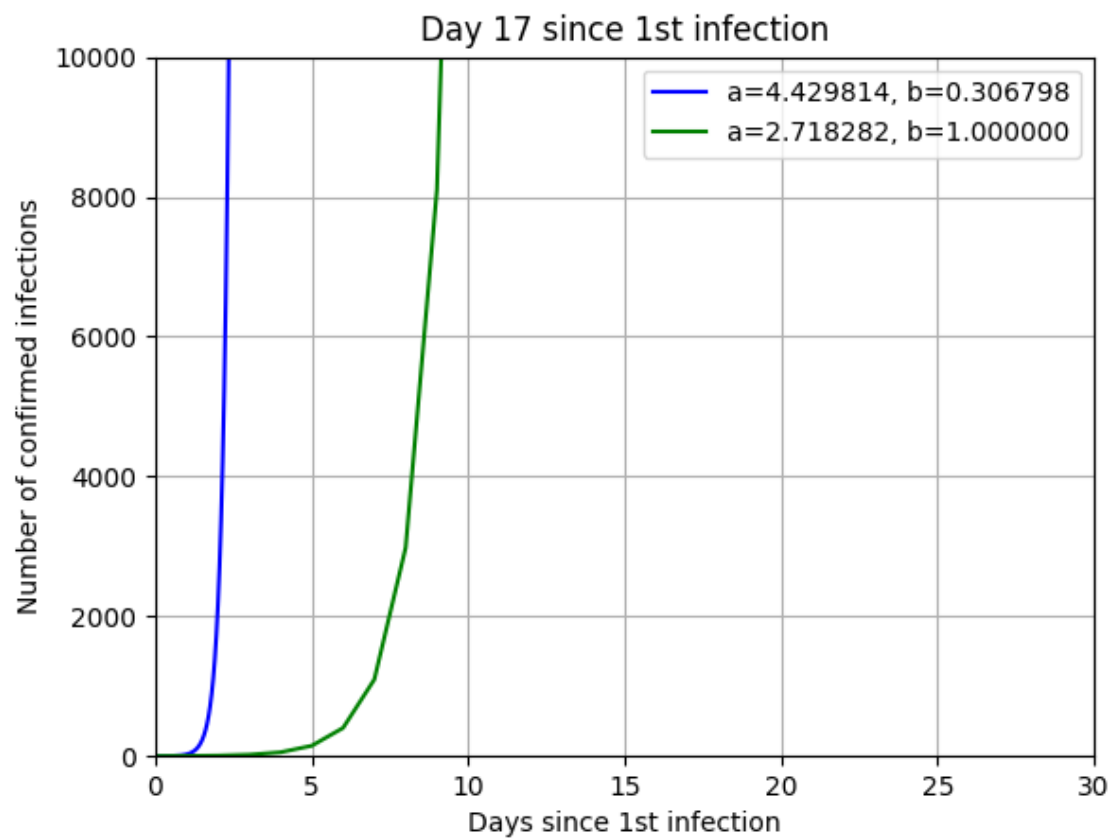


Figure 17: 17th day

Prediction for *day 18*: **1108**

Verified: **1002**

Error rate: **10.6%**

## Conclusion

We're fucked.