

# Steganomobile CTF Writeup

This document is a walkthrough on one way to solve the **Steganomobile CTF** on **RootMe**. The objective is to explain how I was able to solve this CTF to my future self.

## General Information

- *Difficulty:* **Very Easy**
- *Category:* **Steganography / Cryptography**
- *Link:* [Challenge - Steganomobile - RootMe](#)

## Introduction

### Steganomobile

10 Points

Author: **Ryscrow**, 29 April 2011

Level:

Validations: 36384 Challengers, 100%

Note: ★★★★★ 1323 Votes

Statement

After extraction of mobile data, the searcher, investigator have got this sequence of numbers. Maybe a phone number ?

We're given the following text file:

```
~/Documents/CTF Files/ch6.txt - Mousepad
File Edit Search View Document Help
1 222-33-555-555-7-44-666-66-33
2
```

**222-33-555-555-7-44-666-66-33**, what could this mean ?

The challenge description hints that it has something to do with phones and numbers

Effectively, after searching for a bit, we see that this message was constructed using the **Multi-Tap** tool, which was used on Nokia phones for instance, in order to type text messages.



We can deduce the following table:

<b>A</b>	<b>2</b>	<b>B</b>	<b>22</b>
<b>C</b>	<b>222</b>	<b>D</b>	<b>3</b>
<b>E</b>	<b>33</b>	<b>F</b>	<b>333</b>
<b>G</b>	<b>4</b>	<b>H</b>	<b>44</b>
<b>I</b>	<b>444</b>	<b>J</b>	<b>5</b>
<b>K</b>	<b>55</b>	<b>L</b>	<b>555</b>
<b>M</b>	<b>6</b>	<b>N</b>	<b>66</b>
<b>O</b>	<b>666</b>	<b>P</b>	<b>7</b>
<b>Q</b>	<b>77</b>	<b>R</b>	<b>777</b>
<b>S</b>	<b>7777</b>	<b>T</b>	<b>8</b>
<b>U</b>	<b>88</b>	<b>V</b>	<b>888</b>
<b>W</b>	<b>9</b>	<b>X</b>	<b>99</b>
<b>Y</b>	<b>999</b>	<b>Z</b>	<b>9999</b>

Deciphering the message, it gives us “**C-E-L-L-P-H-O-N-E**”, and after some trial and error, we have the following password: **cellphone**