

## C06: Luggage Lock

Saturday, December 23, 2023

4:48 PM

Difficulty: Level 1

*Help Garland Candlesticks on the Island of Misfit Toys get back into his luggage by finding the correct position for all four dials*

CONVERSATION w/ Elf Garland Candlesticks	<b><u>Garland Candlesticks (Squarewheel Yard)</u></b> Hey there, I'm Garland Candlesticks! I could really use your help with something. You see, I have this important pamphlet in my luggage, but I just can't remember the combination to open it! Chris Elgee gave a talk recently that might help me with this problem. Did you attend that? I seem to recall Chris mentioning a technique to figure out the combinations... I have faith in you! We'll get that luggage open in no time. This pamphlet is crucial for me, so I can't thank you enough for your assistance. <input checked="" type="checkbox"/> Once we retrieve it, I promise to treat you to a frosty snack on me!  ** ----- Response after completing challenge ----- ** Wow, you did it! I knew you could crack the code. Thank you so much!  From < <a href="https://2023.holidayhackchallenge.com/badge?section=conversation&amp;id=garlandcandlesticks">https://2023.holidayhackchallenge.com/badge?section=conversation&amp;id=garlandcandlesticks</a> >
HINTS	<b>Lock Talk</b> <i>From: Garland Candlesticks</i> <i>Terminal: Luggage Lock Decode</i>  Check out Chris Elgee's <a href="#">talk</a> regarding his and his wife's luggage. Sounds weird but interesting!  From < <a href="https://2023.holidayhackchallenge.com/badge?section=hint&amp;id=hintLockdecode1">https://2023.holidayhackchallenge.com/badge?section=hint&amp;id=hintLockdecode1</a> >
TALKS	<b>Lock Talk</b> <i>Speaker(s): Chris Elgee</i>  Join Chris as he talks locks and penetration testing.  <a href="#">Click here to watch this talk!</a>  From < <a href="https://2023.holidayhackchallenge.com/badge?section=talk&amp;id=locktalk">https://2023.holidayhackchallenge.com/badge?section=talk&amp;id=locktalk</a> >

### MY WORK AND ANSWER

I have participated in lockpicking before so I enjoyed this (and the other lockpicking) challenge. While it was more difficult to do in software, it was doable using the hints from the elf and those provided by the other players.

Before beginning the challenge, I also spent some time practicing to become familiar with how the lock app worked and becoming comfortable with pressure and resistance.

I practiced cracking 1 combo and then 2 combos until I was reasonably confident in my approach.

Then repeated by cracking two combos and then the next two combos - working right to left



I worked this challenge by attacking the lock digits from right to left as this approach worked better for me in the practice I did.

It was easy to determine the first rightmost digit as the resistance was most obvious.

The next was just as easy.

The last two were more fluid but with applying a bit more pressure, I was able to more easily narrow down the small range to a single digit in both cases.



Entered the lock combo:

Presto! The suitcase opened and I was able to see the travel booklet for geese island, swimwear, sunshades (partial), and the cute big-eared elf toy



### Comments of Interest from other Players

The lock combinations are generated randomly based on your userid. So it should be generally different between players, but it should be consistent for a given player.

#### Dealing with resistance

Focus on pressure; appears resistance mean one of the numbers is correct - or, at least you're very near the correct number (perhaps one either side)

- Try experimenting with just one dial to master the technique and then go from there

The order in which you do the crack matters

- suggested left to right is the right way

truggle with the pad lock. i followed the method described in the video and it feels that i got the sticky nr and both guess nrs, followed the math instructions and tried all combinations. However i did not get it unlocked. Anyone have a hint for me?

lol. I Javascripted my way through it, so easy. Never got the more direct way to work. I'll take it

There is a websocket message that tells you the friction likelihood of each number on each wheel. It's then saved in js as "probabilities". Just take the max value of each wheel and it's the answer.