

# **MysteryTwister C3**

THE CRYPTO CHALLENGE CONTEST

## **ADVENT CHALLENGE – PART 4**

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## Challenge (1/3)

The organist of Berlin's church is a genius – in musical respect as well as in cryptographic respect. Every year he encrypts a verse of the Christmas carol, which he is going to play at the end of Christmas Eve's service, and publishes it in the newspaper. If someone solves it until the beginning of the service, he donates 100 Euro to poor children.

Jacob campaigns for people in trouble, but he is not very well versed in cryptography. Therefore, he sneaks off to the organist's office and actually finds 6 strips of a disrupted slip of paper in his wastepaper basket, which he considers important. It says:

## Challenge (2/3)

LC4 1d5a2z k f 5 u # 8

e p 7 t 9 a

j v d 6 z x

\_ m w r y h

q b 2 l s g

i n o 4 c 3

Obviously, the 6 strips belong together, but in which order?

## Challenge (3/3)

This is the published ciphertext:

vhwrđ#9hm474#zn6deyyx747f2j3wanz2aatbfzrdk25ryrn24n#zw#  
zdcyj34ey6amr\_9avjnt#s#qj2y4lgfmcoedun#o46snnlljrfzmxl#yi  
k\_ixa#7l#8o9iu88am4jaty6la28qjosy5iuumeftbfnrputxb

Can you decrypt the message and help the poor children?

The solution consists of the title of the Christmas carol. Please enter the solution in capital letters with spaces between the words.

Hint: A description of the LC4 cipher can be found in the additional zip file of the challenges "ElsieFour – Part 1" and "Weakened ElsieFour – Part 1".