

Developer: Aman Jain

P.S.: Round off the actual total amount to the nearest integer value.

[illegible]

Frames:

[illegible]

4. One of the articles is -
<https://www.robertxiao.ca/hacking/ctf-writeup/mma2015-qrcode/>
5. Some things can be easily constructed like the position and alignment but still, it's not scannable. Looking at the QR we find that the format information and the timing are also corrupted and we need to fix it.
6. The format information is encoded twice. One instance is wrapped around the top-left Finder, and the other instance is split in half between the bottom-left and top-right Finder patterns. The **format information** consists of exactly 15 bits. Here are the bits we can see in our QR code: **110011000101111** i.e. **ECC Level L, Mask Pattern 4**.
7. And the **timing** can be easily corrected by putting **alternate 1 and 0** wherever missing.



Final QR will be:



8. Finally, we can scan our QR which decodes to a [GitHub repo](#).
9. There we find a base64 encoded file which is an image.
10. By decoding it, we get an image where we have to reach finally and analyze what is the issue with the amount.

Base64 to Image

Add to Fav

Enter Base64 String

Sample

Sample Base64 string input area with a scroll bar.

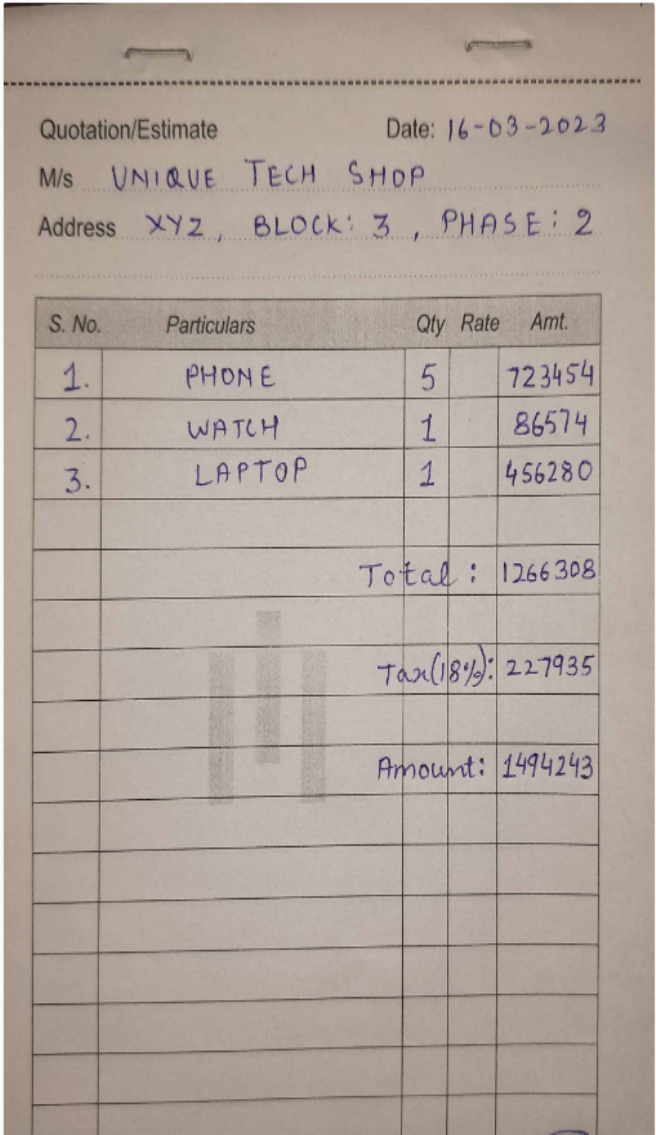
Auto Update

Generate Image

File URL

Download Image

Size: 2.85 MB, 2988752 chars



Date: 16-03-2023

Address XYZ, BLOCK: 3, PHASE: 2

[illegible]

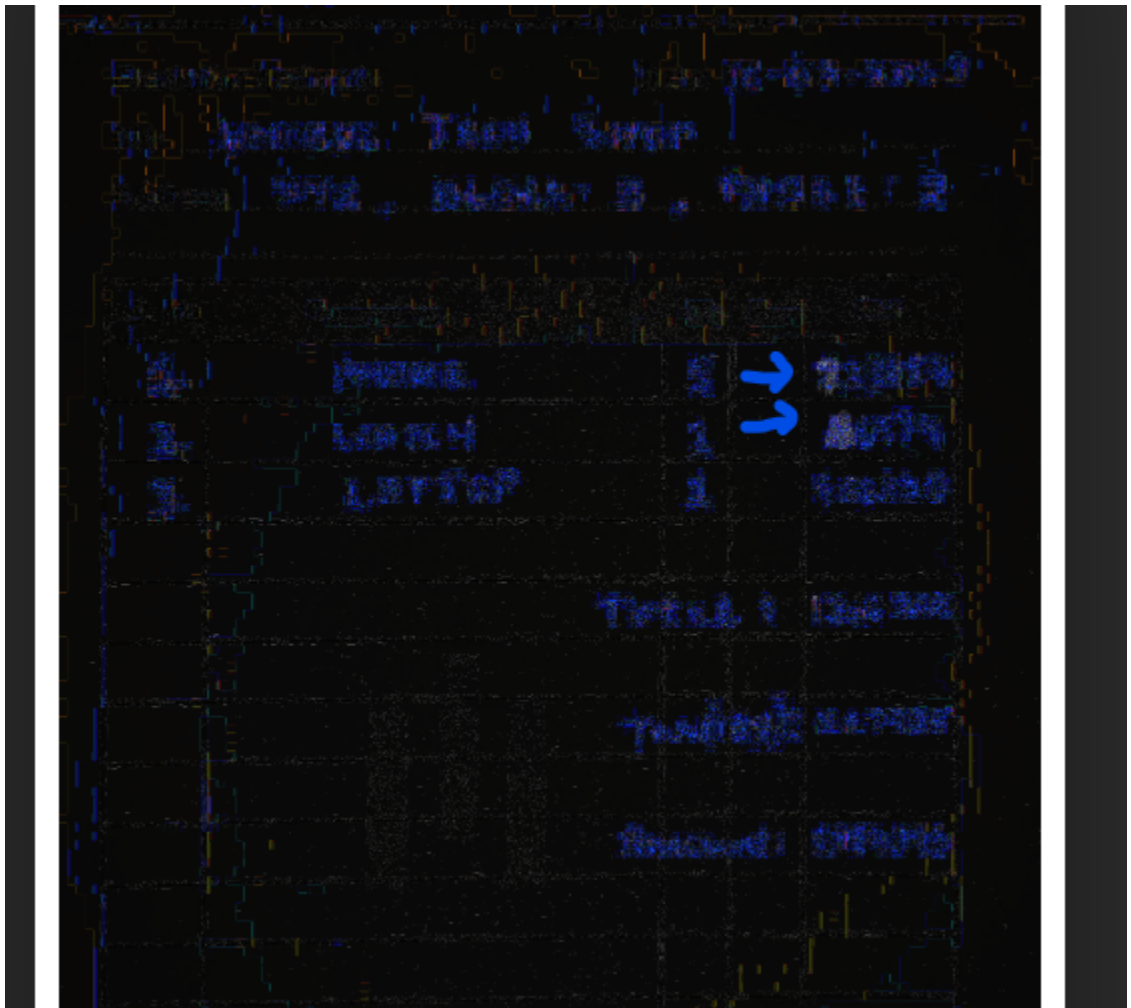
CKD. BY P.S. PKD. BY R.P.

Signature _____

adip

11. The question has a hint about the software that was used to copy or edit the image for charging a false amount, it is FORENSICALLY.
12. Other tools can also be used to do the same.

13. In [FORENSICALLY](#) by adjusting the Error level analysis we were able to see easily that some figures are copied to other positions as well to change the total amount of the bill. The numbers were 7 and 8.



14. By removing them we can finally calculate the original amount with tax which is the flag.

Calculations : $(23454 + 6574 + 456280) * 1.18 = 573843.44$

It is specified to round off to the nearest Integer in the question, the final amount will be 573843.

15. We have to submit the flag in the flag format **VishwaCTF{573843}**.