Q1.					
(a) oll1110 1000 111110 101000 111110011 oll oll 111110					
b) Before: 0111110 11110 11000 11110 110111110					
After: 111111000111111					
12. 123456789101112					
a. P1 P2 d1 P4 d2 d3 d4 P8 d5 d6 d7 d8					
0 1 0 0 0 1 1 1 0 1 1					
(b.)					
1 1 1 0 0 0 1 0 1 0 1 1					
i 0 0 0 0 0 1 1 checkbits C1: C2: 0 C3: 0 C4: 50, bit index 9 is wrong					
50, bit index 9 is wrong					
1100110011					
checkbits: C1:1, C2:1, C3:0, C4:1					
So, bit index 11 is mong.					
V					

(13.
(a)
$$M(x) = |0||0, C(x) = |0||0|$$

 $N_{-}(x) = m(x) x^{k} = |0||00000$
 $r(x) = N_{-}(x) \mod C(x) = |1||$

UZ.

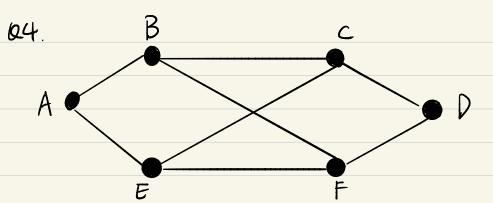
N(x) = N - (x) - Y(x) = |0||0||1||

MX = 0, so this code is

11.10101100 10101 10101

T(X) \$0, So this code is conoct.

0101



	5	5	4	
Destination	cost B	9	U	Next
A	11	9	Ξ	D
В	5	\$	1	В
C	13	12	8	C
9	15	5	12	D
E	lo	13	4	E
-	10	11	9	E

US

maximum lifetime =
$$\frac{2^{47}}{100 \times 2^{40} \text{ hits/sec. 24h.3600S}}$$

06.

Creation date: 1986-06-02 To4:00:00Z

Expiration date: 2021-07-31 TI1:59:59 Z

DMS covers: DMS date: 2017 DULT T

DNS servers: DNS-AUTH-01.0IT.DUKE.EQU

ONS-AUTH-02.0IT.DUKE.EDU

DNS-NCI-OL. DIT. DUKE. EDU

* Screen shot on the next page.

WHOIS LOOKUP



duke.edu is already registered*

Domain Name: DUKE.EDU

Registry Domain ID: 5059_DOMAIN_EDU-VRSN Registrar WHOIS Server: whois.educause.net Registrar URL: http://www.educause.edu/edudomain

Updated Date: 2018-06-08T13:57:29Z Creation Date: 1986-06-02T04:00:00Z Registry Expiry Date: 2021-07-31T11:59:59Z

Registrar: Educause Registrar IANA ID: 365

Registrar Abuse Contact Email: Registrar Abuse Contact Phone:

Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited

Name Server: DNS-AUTH-01.OIT.DUKE.EDU
Name Server: DNS-AUTH-02.OIT.DUKE.EDU
Name Server: DNS-NC1-01.OIT.DUKE.EDU

DNSSEC: unsigned

URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/

>>> Last update of whois database: 2018-06-13T13:34:24Z <<<

Connection to rabihyounes.com 80 port [tcp/http] succeeded!

HTTP/1.1 200 OK

Date: Tue, 11 Feb 2020 03:18:36 GMT

Server: Apache

Upgrade: h2,h2c

Connection: Upgrade, close

Last-Modified: Fri, 08 Feb 2019 18:43:41 GMT

Accept-Ranges: bytes

Content-Length: 2360

Cache-Control: max-age=604800

Expires: Tue, 18 Feb 2020 03:18:36 GMT

Vary: Accept-Encoding X-Endurance-Cache-Level: 4 Content-Type: text/plain

