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DEPARTMENT OF INFORMATION TECHNOLOGY

19CSB302 – COMPUTER NETWORKS

III YEAR V SEM

UNIT 3 – TRANSPORT LAYER

UDP

***Datagram Protocol (UDP) is a
less, unreliable transport protocol. It does
the services of IP except to provide pr
ommunication instead of host-to-
tion.***

ussed in this section:

Ports for UDP User

DP

echo	Echoes a received datagram back to the sender
discard	Discards any datagram that is received
users	Active users
daytime	Returns the date and the time
quote	Returns a quote of the day
margen	Returns a string of characters
nameserver	Domain Name Service
BOOTPs	Server port to download bootstrap information
BOOTPc	Client port to download bootstrap information
TFTP	Trivial File Transfer Protocol
RPC	Remote Procedure Call
NTP	Network Time Protocol
SNMP	Simple Network Management Protocol

the well-known ports are stored in a file. Each line in this file gives the name of a well-known port number. We can use the `grep` command to extract the line corresponding to a specific port number. The following shows the port for FTP. The output shows that port 21 is used for FTP and it is a TCP port.

```
$ grep ftp /etc/services
ftp 21/tcp
```

two port numbers (161 and 162), each for a different purpose, as we will see in Chapter 28.

```
snmp /etc/services
```

```
161/tcp
```

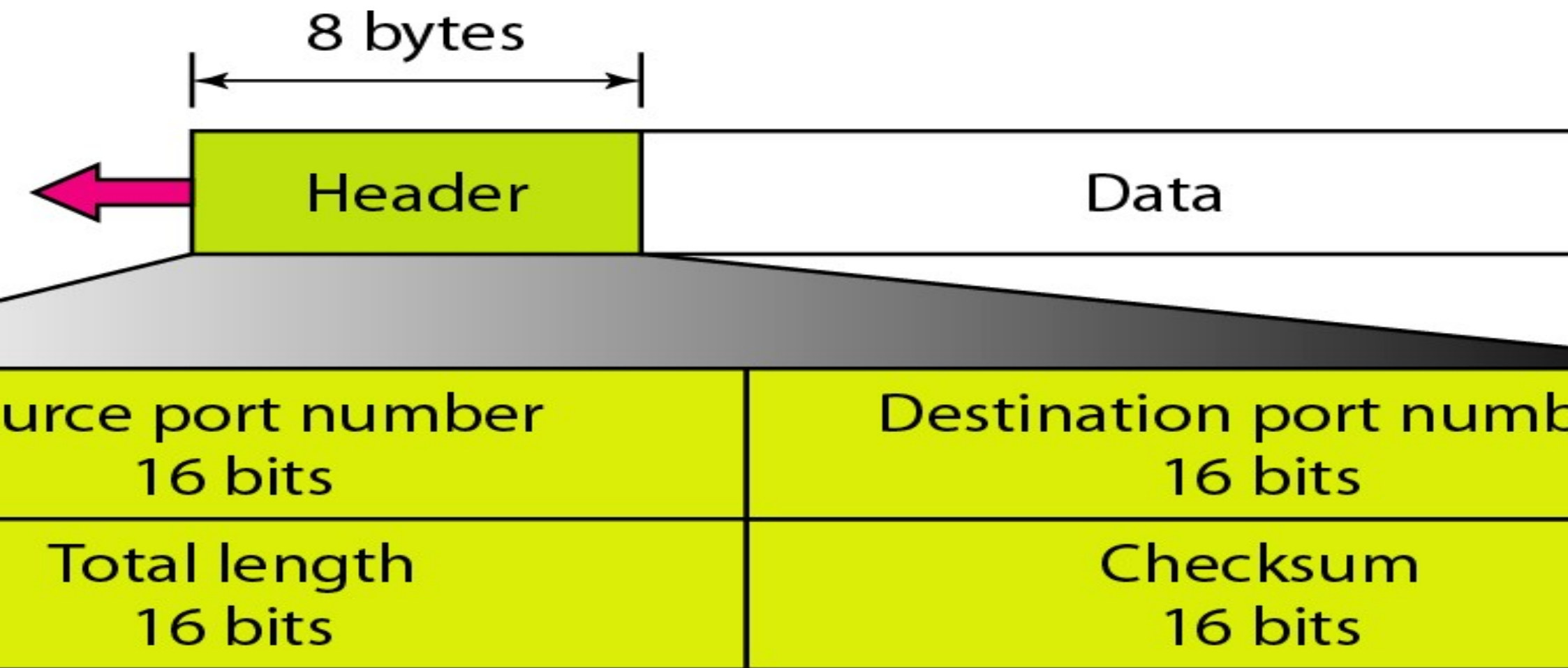
```
#Simple Net Mgr
```

```
161/udp
```

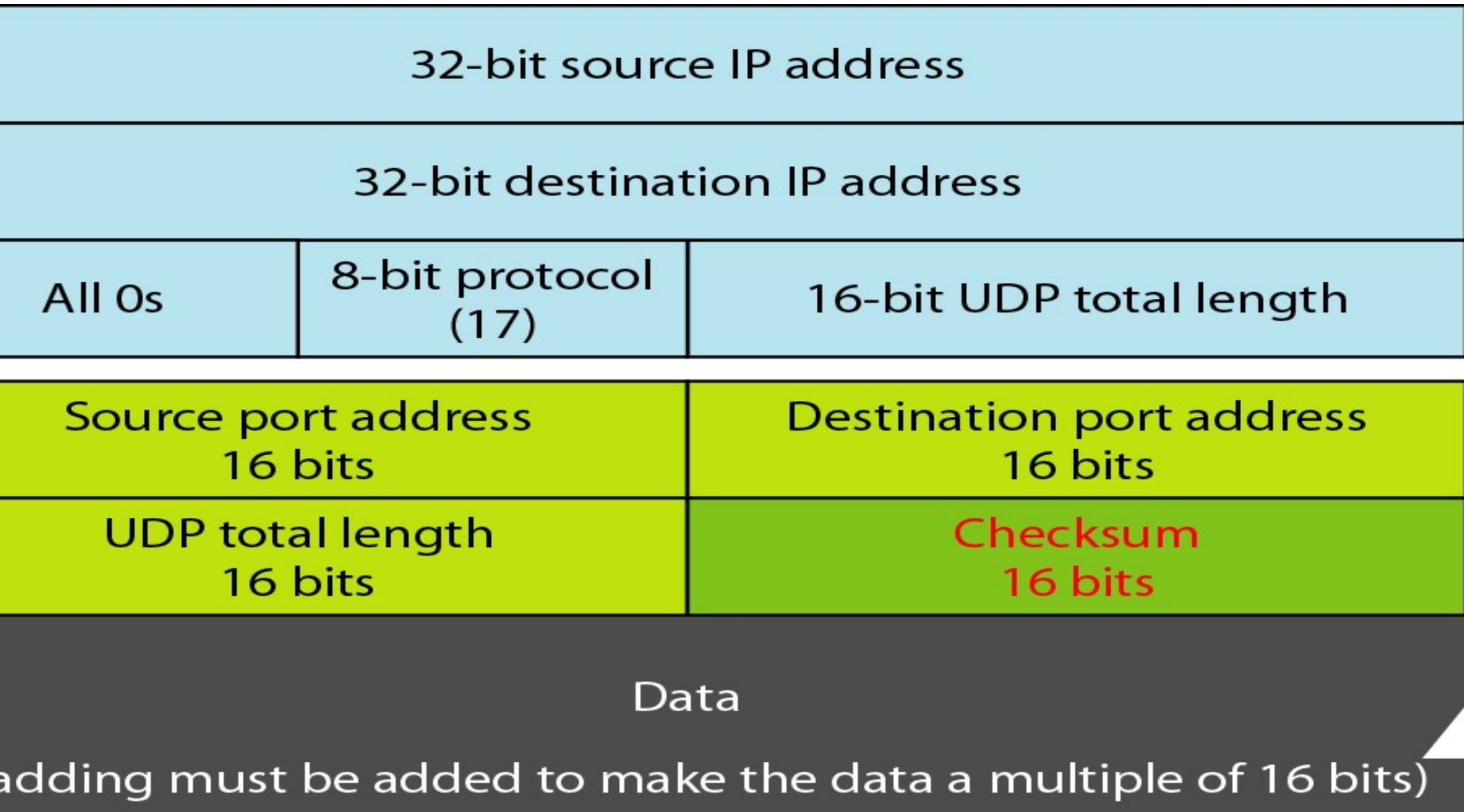
```
#Simple Net Mgr
```

```
162/udp
```

```
#Traps for SNMP
```



UDP length
= IP length – IP header's length



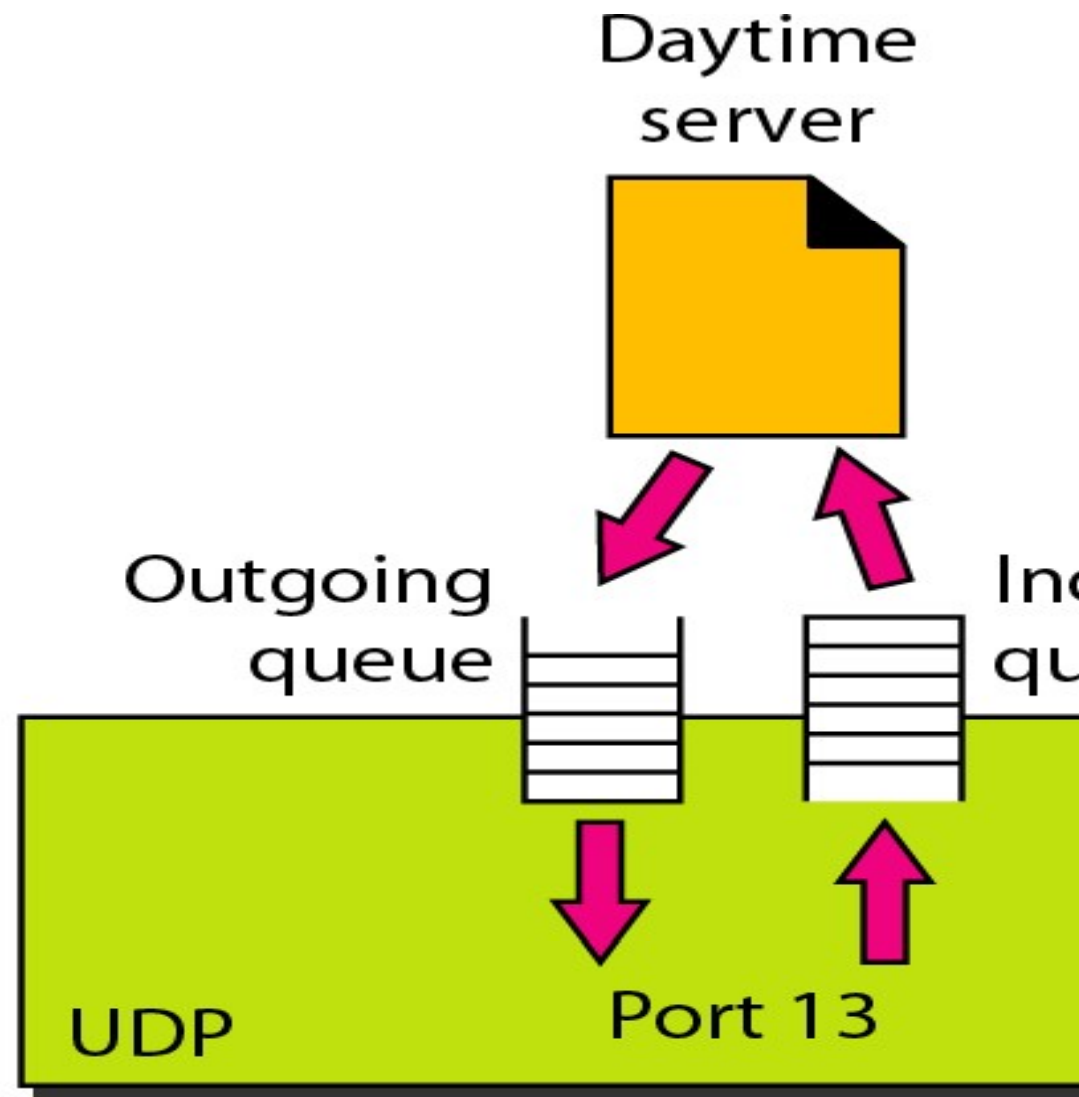
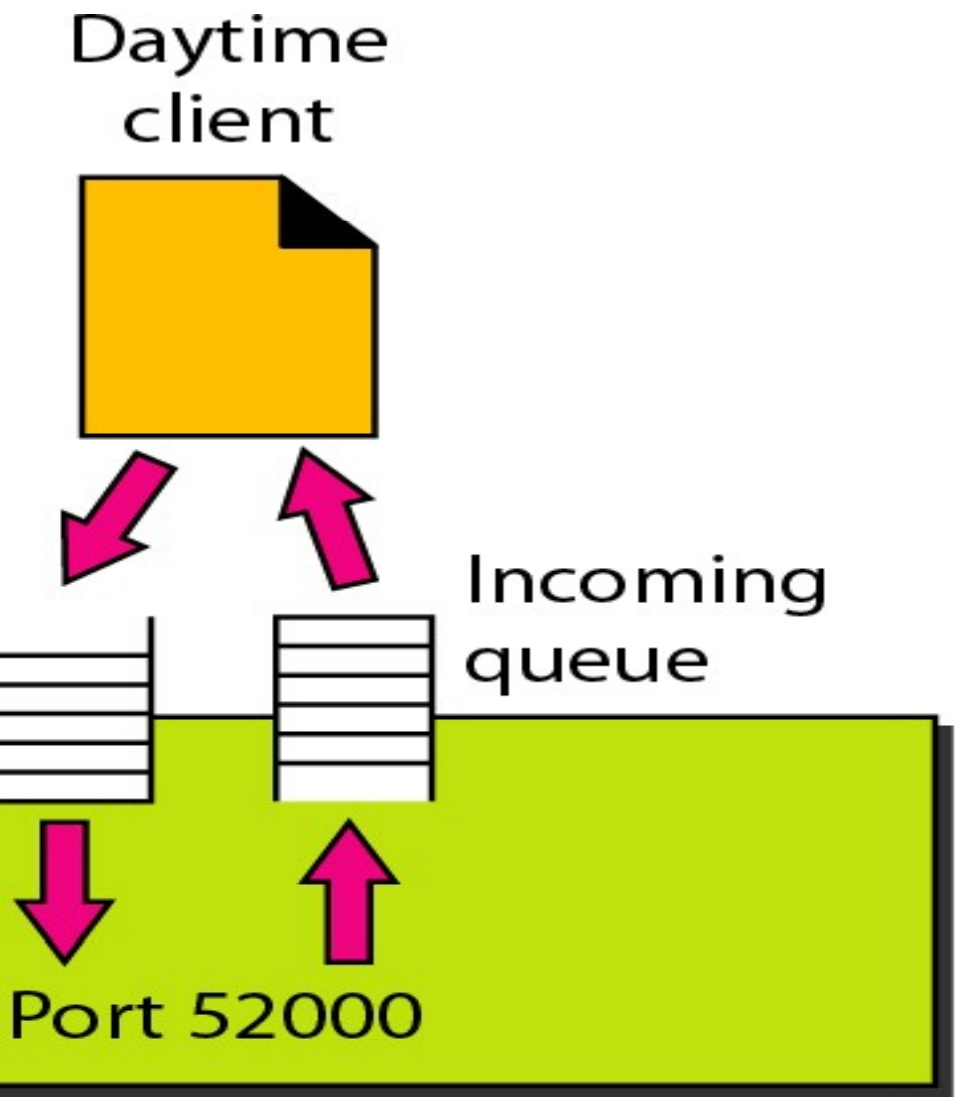
*1 shows the checksum calculation for a
um with only 7 bytes of data. Because th
a is odd, padding is added for checksum
header as well as the padding will be dr
agram is delivered to IP.*

53.18.8.105		
71.2.14.10		
	15	
	13	
	All 0s	
	S	T
	G	All 0s

```

10011001 00010010 →
00001000 01101001 →
10101011 00000010 →
00001110 00001010 →
00000000 00010001 →
00000000 00001111 →
00000100 00111111 →
00000000 00001101 →
00000000 00001111 →
00000000 00000000 →
01010100 01000101 →
01010011 01010100 →
01001001 01001110 →
01000111 00000000 →
-----
10010110 11101011 →
01101001 00010100 →

```



Thank You