

# CSC230 EXAM REFERENCE SHEET

(feel free to detach and keep)

## Powers of two

$n$	$2^n$
0	1
1	2
2	4
3	8
4	16
5	32
6	64
7	128
8	256
9	512
10	1,024
11	2,048
12	4,096
13	8,192
14	16,384
15	32,768
16	65,536
17	131,072
18	262,144
19	524,288
20	1,048,576
21	2,097,152
22	4,194,304
23	8,388,608
24	16,777,216
25	33,554,432
26	67,108,864
27	134,217,728
28	268,435,456
29	536,870,912
30	1,073,741,824
31	2,147,483,648
32	4,294,967,296

## ASCII table (lower 128 values)

#	Char	#	Char	#	Char	#	Char
0	Null char ('\0')	32	Space	64	@	96	`
1	Start of Heading	33	!	65	A	97	a
2	Start of Text	34	"	66	B	98	b
3	End of Text	35	#	67	C	99	c
4	End of Transmission	36	\$	68	D	100	d
5	Enquiry	37	%	69	E	101	e
6	Acknowledgment	38	&	70	F	102	f
7	Bell	39	'	71	G	103	g
8	Back Space	40	(	72	H	104	h
9	Horizontal Tab	41	)	73	I	105	i
10	Line Feed ('\n')	42	*	74	J	106	j
11	Vertical Tab	43	+	75	K	107	k
12	Form Feed	44	,	76	L	108	l
13	Carriage Return	45	-	77	M	109	m
14	Shift Out / X-On	46	.	78	N	110	n
15	Shift In / X-Off	47	/	79	O	111	o
16	Data Line Escape	48	0	80	P	112	p
17	Device Control 1	49	1	81	Q	113	q
18	Device Control 2	50	2	82	R	114	r
19	Device Control 3	51	3	83	S	115	s
20	Device Control 4	52	4	84	T	116	t
21	Neg. Ack.	53	5	85	U	117	u
22	Synchronous Idle	54	6	86	V	118	v
23	End of Transmit Block	55	7	87	W	119	w
24	Cancel	56	8	88	X	120	x
25	End of Medium	57	9	89	Y	121	y
26	Substitute	58	:	90	Z	122	z
27	Escape	59	;	91	[	123	{
28	File Separator	60	<	92	\	124	
29	Group Separator	61	=	93	]	125	}
30	Record Separator	62	>	94	^	126	~
31	Unit Separator	63	?	95	_	127	Delete

## Prototypes of common functions in string.h

```
void* memcpy(void *OUT, const void *IN, size_t N);
void *memset(void *DST, int C, size_t LENGTH);
char *strcat(char *DST, const char *SRC);
int strcmp(const char *A, const char *B);
char *strcpy(char *DST, const char *SRC);
```