

ECE160 Exam 1 Cheat Sheet

by codebrent2 via cheatography.com/19647/cs/2624/

Must-Know		
int	-2,147,483,648 to +1,147,483,647	
float	4bytes,contain 1 digit/decimal, +- 10^38, 7digitsprecision,f, illegalfloats: 6.2.2f,63f,6.2	
double	8bytes,+-10^308,14digitprecise	
variable	upper/lowercase differ, reflects data stored, given to memory location	
destructive read	Reference	
destructive write	Write Over	
types of c statements	declarations/arithmetic instructions/control instructions	
Order of Operations (L->R)	!, * / %, + -, < > <= =>, == !=, &&, , =	
Functions	AND (&&), OR (), NOT (!)	
QuadForm ula	(-b+sqrt((b*b)-4ac))/(2a)	
While Loop	executed 0 or more times. Does test, then body	
Do-While Loop	executed 1+ times. Does body, then test	
absolute value	abs(#)	

Formatting Printf

```
printf("%6d",123);
printf("%03d",5);
printf("%7.2f",6.789);
```

OUTPUTS WITHOUT SPACES

```
output: _ _ _ 1 2 3
output: 005
output: _ _ _ 6 . 7 9
```

Do While Loop (b)

```
do
printf(i);
```

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Do While Loop (b) (cont)

```
i++;
while(i>3);
```

Executed 1+ times. Output: 5

While Loop (b)

```
k=7;
while(k<5)
printf("%d", k);
k++;
```

Executed 0+ times. Output: (nothing)

Switch-Case

```
int dc;
scanf("%lf", dc);
switch(dc) //can only switch a non
double/non float
case 0 : printf ("switch case
statement 1");
break:
case 1 : printf("switch case
statement 2");
default; //do default case, below
this line
printf("DEFAULT CASE");
break;
```

Logical If

```
If(logical expression)
//block of code
else
//statement if false
}
```

For Loop (a)

```
for(i=0;i<10;i++) //INIT, TEST,
LOOP ALTER
printf("%d",i); //BODY
```

Rewrite of While Loop (a)

While Loop (a)

```
i=0; //INIT
while(i=0); //TEST
printf("%d",i); //BODY
i++; //LOOP ALTER
```

Rewrite of For Loop (a)

Pyramid Code Snippet

```
for(r=0;r<7;r++) //outer: 7 rows</pre>
for(s=0;s<r;s++) //controls spaces</pre>
printf(" ");
for(a=0;a<___*r;a++) //MATH
printf("*"); //controls stars
```

Pyramid Math

1	# Stars	
0	11	
1	9	
,	m: m=(y2-y1)/(x2-x1 equation: b=v=mx)

- 3) Use equation in blank in code
- *y=ANSWER

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