CS120 Practice Questions

<u>Disclaimer: Exercises here will help you with your C foundation, but whether or not they end up in</u> exams is another thing. I can't read Edward's 2complex4me mind

1.	Look t	hrough the following definitions. If it compiles, Write	C. Else, write NC.
	a.	int foo;	
	b.	char coo;	
	c.	short Short;	
	d.	float int;	
	e.	float_foo1;	
	f.	int 2foo;	
	g.	int do;	
	h.	int k00;	
	i.	int b@o;	
	j.	float define;	
2.	What	are the 4 stages which a C file goes through to becom	
3.	Descri	be what <i>typedef</i> does.	
4.	Descri	be what the pre-processing statement #define does.	

	be what each of the following gcc compiler flag does: —ansi	
b.	-Wall	
c.	pedantic	
d.	std=c99	
e.		
f.		

7. Read the following code carefully and write the output of the program.

```
#include <stdio.h>
int main(int argc, char** argv)
  int \cdot i, x = 1;
  for(i = 0; i < 5; ++i)</pre>
    switch(++i)
      case 1:
       x++;
      case 2:
        ×--;
      case 3:
x *=2;
      case 4:
        x · /= · 2;
      default:
        x=0;
  printf("x = 0%d",x);
return · 0;
```

Output:

8. Read the following code carefully and write the output of the program.

```
#include <stdio.h>
int main(int argc, char** argv)
{
  int i, x = 1;
  for (i = 0; vi < 5; v++i)</pre>
    switch(i)
     case 1:
       x++;
      case 2:
       x--;
      case 3:
       x · *=2;
      case 4:
       x -/= -2;
      default:
        x=0;
 printf("x = 1%d",x);
 return 0;
```

Output:

9. Read the follow code carefully.

```
int i, sum=0;
int main(int argc, char** argv)
{
   if(argc < 2 )
   {
      printf("2 arguments or more!\n");
      return 0;
   }
   for(i=0;i < argc; ++i)
   {
      printf(argv[i]);
   }
   return 95;
}</pre>
```

Does the code compile?

10. Read the following code carefully and write the output of the program.

```
#include <stdio.h>
int main(int argc, char** argv)
{
   int i = 0, j=5, k=1, l=2;
   int x;

   if(i=1)
   {
        x = i;
   }
   else if(--k | | --j-++l == k)
   {
        x = 99;
   }
   printf("i = %d, j = %d, k = %d, l = %d, x = %d",i,j,k,l,x);
   return 0;
}
```

Output:

11. Read the following code carefully and write the output of the program.

Output: