Quick syntax reference

	Syntax	Examples

while	```while (condition)
	{
	   statements ;
	}```
		``/* Read and total until n is 0 */
		int n = 1 ;
		int total = 0 ;
		while (n != 0)
		{
		   scanf("%d", &n) ;
		   total+=n ;
		}```

do-while	```do
	{
	   statements ;
	}
	while (condition) ;```
		``/* Read and total until n is 0 */
		int n ;
		int total = 0 ;
		do
		{
		   scanf("%d", &n) ;
		   total += n ;
		}
		while (n != 0) ;```

for	```for(initial expression;
	    continue condition;
	    increment expression)
	{
	   statements ;
	}```
		``/* Read and total 10 numbers */
		int n ;
		int total = 0 ;
		for (i=0 ; i<10 ; i++)
		{
		   scanf("%d", &n) ;
		   total += n ;
		}```

Exercises

1. What is the output from the following program?

```
main()
{
  int i, j = 1 ;
  for ( i = 10 ; i > 0 ; i /= 2, j++ )
    printf( "%d %d\n", i, j ) ;
}
```

2. Modify program P6A to calculate the average along with the total of the numbers entered.

3. Rewrite the following using a for loop.

```
int total = 0 ;
int i = 0 ;

while ( i < 10 )
{
  scanf ( "%d", &n ) ;
```

(right column, partially visible)

```
total +
i++ ;
}
```

4. What is display

```
#include
main()
{
   int num
   printf(
   scanf(
   do
   {
      print
      num /
   }
   while (
}
```

5. The following
   contains a flaw

```
float sum
float i =

while ( 
{
   sum +=
   i += 0
}
```

6. Write a prog

7. Write a prog
   0:01   0:02 ..
   How would y

8. Write a progra

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above. The