```
total += n;
 i++ ;
}
```

1 is 0 */

itered.

4. What is displayed when the following program is run and the number 1234 is entered?

```
#include <stdio.h>
main()
 int num ;
printf( "Please enter a number " ) ;
scanf( "%d", &num ) ;
do
   printf( "%d", num % 10 );
num /= 10 ;
 while ( num != 0 );
```

5. The following program segment is intended to compute $0.1 + 0.2 + 0.3 \dots + 99.8 + 99.9$. It contains a flaw. What is it, and how would you correct it?

```
float sum = 0.0;
float i = 0.1;
while ( i != 100.0 )
 sum += i ;
 i += 0.1;
```

- 6. Write a program to find the sum of all the odd integers in the range 1 to 99.
- 7. Write a program to display all the hour and minute values in a 24-hour clock, i.e. 0:01 0:02 ... 12:59 0:00. How would you display the values in fifteen-minute intervals?
- 8. Write a program to display a Christmas tree.

```
Writing this program is manageable for ten people, but what happens ***** while to
increases to a hundred or more? Do you need another ninely variables? This*s where are
        ***
       ****
               hundred Floats. With an array, the ten ages are held together in memo
```

The tree is consists of a series of tiers of increasing size. There are three tiers in the tree above. The program inputs the number of tiers from the keyboard.