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Chapter 7

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Handling functions

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- (1) Handling functions done
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Your task is to supplement the source code below with the missing functions. The program prints the following text in accordance with the user's selections:

```
Choice 1: "The cat says meow!"
Choice 2: "The dog says wuff-wuff!"
Choice 3: "The cow says moo!"
```

Upon execution, the program asks the user to select one of the animals. Once selected, the program calls a function that prints out the correct utterance. After executing the function, the program returns to ask the user for a new choice. The program is terminated by a negative integer.

Code to be supplemented:

```
#include <stdio.h>

void cat(void);
void dog(void);
void cow(void);

void main()
{
    int choice;
    do{

        printf("1:cat\n2:dog\n3:cow\n");
        printf("End with a negative number.\n");
        printf("Select animal:");
        scanf("%d", &choice);
        if(choice < 0) {
            printf("Terminating the program...");
        }
        else if(choice == 1) {
            cat();
        }
        else if(choice == 2) {
            dog();
        }
        else if(choice == 3) {
            cow();
        }
        else {
            printf("You entered an invalid number.\n\n");
        }
    }while(choice>0);
}
```

Hint: The purpose of the exercise is to provide you with a feeling for writing functions. Do not copy the source code, only write functions that print the output. The functions are declared in the prototypes before the main program.

Example output:

```
1:cat
2:dog
3:cow
End with a negative number.
Select animal:1
The cat says meow!

1:cat
2:dog
3:cow
End with a negative number.
Select animal:2
The dog says wuff-wuff!

1:cat
2:dog
3:cow
End with a negative number.
Select animal:3
The cow says moo!

1:cat
2:dog
3:cow
End with a negative number.
Select animal:-1
Terminating the program...
```

The verification of program output does not account for whitespace characters like "\n", "\t" and " "

```
program.c
  * program.c
29     printf("You entered an invalid number.\n\n");
30 }while(choice>0);
31 return 0;
32 }
33 }
34 }
35 void cat(void)
36 {
37     printf("The cat says meow!");
38 }
39 }
40 void dog(void)
41 {
42     printf("The dog says wuff-wuff!");
43 }
44 }
45 void cow(void)
46 {
47     printf("The cow says moo!");
48 }
```

Position: Ln 36 Ch 1

Full screen (Esc to exit)

Reset

Save Run