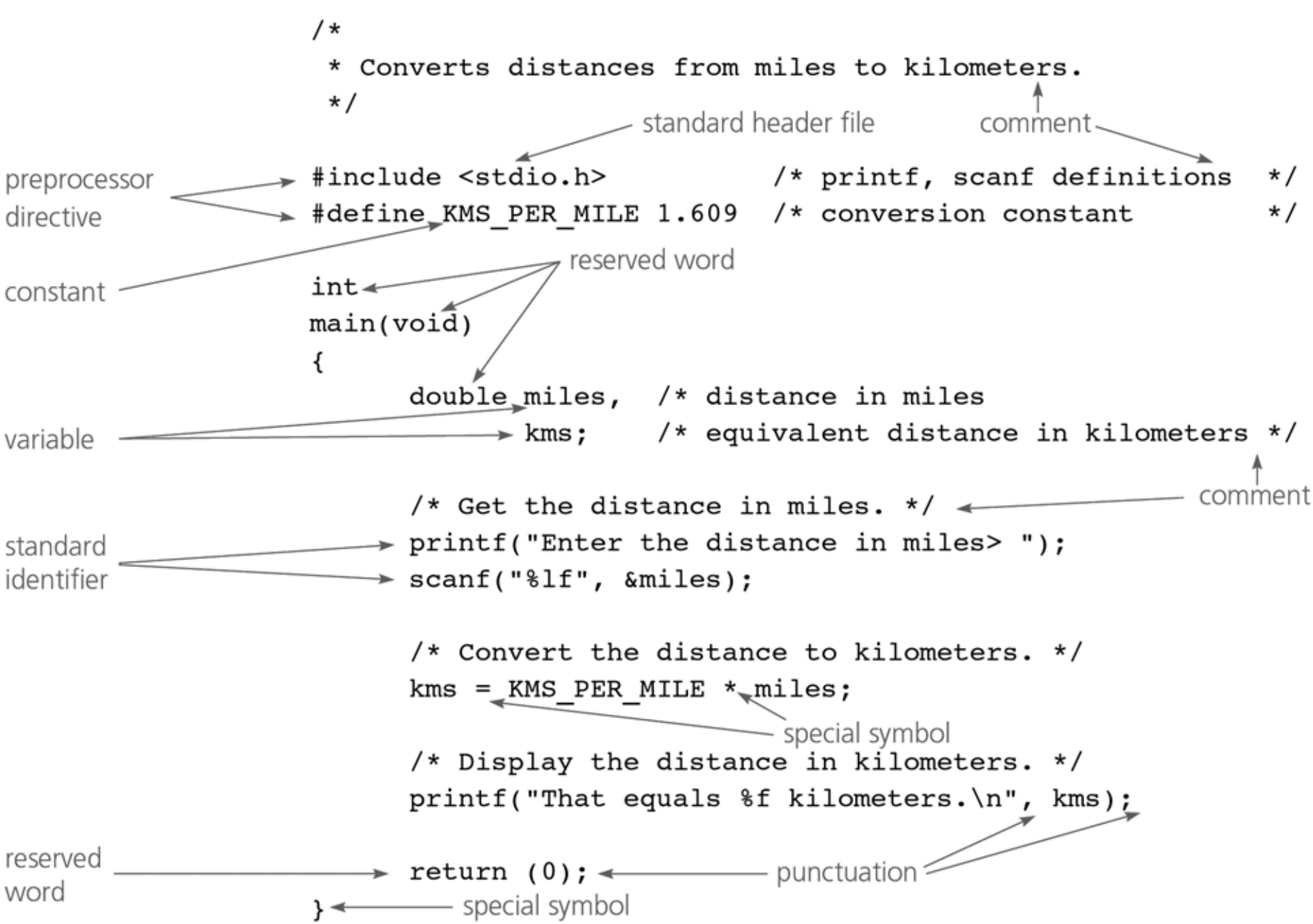
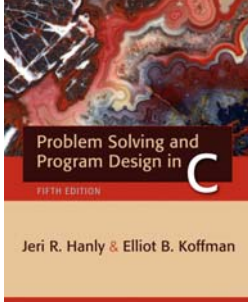
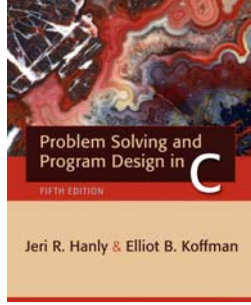

/*
* Converts distances from miles to kilometers.
*/
standard header file
comment
preprocessor directive
#include <stdio.h> /* printf, scanf definitions */
#define KMS_PER_MILE 1.609 /* conversion constant */
constant
reserved word
int
main(void)
{
double miles, /* distance in miles
variable
kms; /* equivalent distance in kilometers */
comment
/* Get the distance in miles. */
standard identifier
printf("Enter the distance in miles> ");
scanf("%lf", &miles);
/* Convert the distance to kilometers. */
kms = KMS_PER_MILE * miles;
special symbol
/* Display the distance in kilometers. */
printf("That equals %f kilometers.\n", kms);
reserved word
return (0);
punctuation
}
special symbol

C program



- The preprocessor part
- Definitions: Macro and Variable
  - Define the memory/data
  - Variable name and its data type
- Control Flow
  - Where should we start to execute? “main”
  - Reserved words
  - Function and blocks/scope of code

{ … }



- { … }
- {… { … {…}…} … {…}…}
- int main (void) { … }
- float myfunc (int x) { …; return f;}

- { **<declarations> <statements>** }

Memory Cell Concept Again