























The Java Programming Environment (continued)



- The most basic environment is a command line environment that uses a separate application from the Java Software Development Kit (SDK) for each task.
 - To compile the program, use the command "javac" with a file name that includes the extension ".java". The command converts the source code into intermediate bytecode instructions. The resulting file has the extension ".class".









Primitive Number Types

Primitive Types	Size in Bits	Range	
byte	8-bit integer	-128 to 127	
short	16-bit integer	-32768 to 32767	
int	32-bit integer	-2,147,483,648 to 2,147,483,647	
long	64-bit integer	(Approx) -9 x 10 ¹⁸ to 9 x 10 ¹⁸	
float	32-bit real number	(Approx) -3.4 x10 ³⁸ to 3.4 x10 ³⁸	
double	64-bit real number	(Approx) -1.7 x10 ³⁰⁸ to 1.7 x10 ³⁰⁸	















































Nested if-Statements (continued)



A lumber company prices sheets of plywood based on their grade F (finished) or U (utility). In addition, the company offers customers a reduced price on a sheet if they buy in quantity. The following table lists the price of a sheet of plywood based on grade and quantity

Plywood price (per sheet)			
Utility	Finished		
12.50	18.75		
11.25	17.25		
	Jtility 12.50 11.25		

































































































