	Read each question carefully and <i>encircle</i> the appropriate choice.
Name:	Reg. No
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(1 point)	Every C++ program <i>must</i> contain one function.
A.	using
В.	main
С.	int
D.	cout
(1 point)	Which of the following is <i>not</i> a C++ data type?
A.	int
В.	float
С.	char
D.	single
(1 point)	The only language that is <i>completely</i> understood by computers is
A.	Assembly language
В.	machine language
С.	C++
D.	english language
(1 point)	Which of the following is not a C++ relational operator.
A.	<
В.	<>
С.	==
D.	>=

5. (1 point) Which of the following expressions has not been computed correctly.

	Expression	Computes to
A	!('x' <= 'y' 'x' >= 'y' && 5.5 > 3)	0
В	(2.5 < 2.6 && 'c' != 'C')	1
С	(1 <= 6 % 2 && 2.05 > 20.5)	0
D	(1 && 25 > 24 'a' > 'b')	0
E	(1 'd' > 'c' && 1)	1

6. (5 points) Obesity can cause a number of problems including diabetes and heart disease. In order to determine whether a person is overweight or obese, a measure known as Body Mass Index (BMI) is used. BMI is defined as:

$$BMI = \frac{weight}{height^2}$$

where weight is taken in kilograms and height in meters.

In this problem, you are required to answer a few questions related to a program that takes *height* and *weight* of the user as an input, calculates his/her BMI, and displays a message such as "underweight", "healthy", "overweight" or "obese" based on the following graduation:

Expression	Output
$\overline{\rm BMI} < 18.5$	underweight
$18.5 \le BMI < 25.0$	healthy
$25.0 \le BMI < 30.0$	overweight
$30.0 \le BMI$	obese

- (a) Which data type would be most appropriate for BMI?
 - A. int
 - B. short
 - C. float
 - D. char
- (b) Which of the following gives a correct set of True and False corresponding to numerical labels in the flowchart figure?

	1	2	3	4	5	6
A	True	False	True	True	True	False
В	False	True	False	True	False	True
\mathbf{C}	True	False	True	False	True	True
D	True	False	True	False	True	False

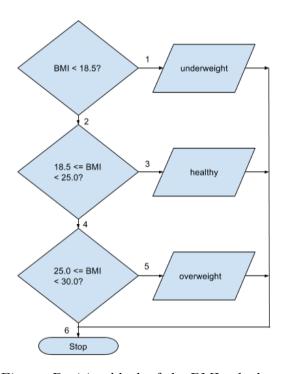


Figure: Decision block of the BMI calculator

- (c) Which C++ decision statement would be most appropriate for programming the behavior as shown in the figure?
 - A. if statement
 - B. if...else statement
 - C. switch statement
 - D. nested switch statement (switch within a switch)