## **Programming Languages Principles and Practices 3rd Edition Louden Test Bank**

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**Chapter 2: Language Design Criteria** 

## **TRUE/FALSE**

1. The primary design goal of early programming languages was efficiency of execution.

ANS: T PTS: 1 REF: 27

2. FORTRAN's designers attempted to improve the readability of programs by making the constructs look like ordinary written English.

ANS: F PTS: 1 REF: 27

3. The most important design criterion of the last 25 years has been the goal of efficiency.

ANS: F PTS: 1 REF: 28

4. Design goals for programming languages have not changed through the years.

ANS: F PTS: 1 REF: 28

5. The ease with which a complex process or structure can be expressed in a programming language is called its regularity.

ANS: F PTS: 1 REF: 29

6. Python uses statement terminators such as the semicolon.

ANS: F PTS: 1 REF: 29

7. Early dialects of FORTRAN supported static storage allocation only.

ANS: T PTS: 1 REF: 29

8. The presence of explicit data types in variable declarations in a language allows for more concise code.

ANS: F PTS: 1 REF: 30

9. When applied to data types, value semantics means that assignment produces two references to the same object.

ANS: F PTS: 1 REF: 32

10. Java demonstrates a lack of orthogonality in its different handling of primitive data types and object data types.

ANS: T PTS: 1 REF: 32

11. Pascal uses a dedicated return statement for returning values from functions.

ANS: F PTS: 1 REF: 32

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- 12. Irregularities in a language may be the result of maintaining backward compatibility with a prior version of the language.
  ANS: T PTS: 1 REF: 33
  13. Java is considered to be a semantically safe language.
  - ANS: T PTS: 1 REF: 33
- 14. A language that adds new features via additional releases is considered to be extensible.
  - ANS: T PTS: 1 REF: 34
- 15. Macros can be used to improve the readability of a language.
  - ANS: T PTS: 1 REF: 34-35
- 16. C was chosen as the base language for C++ because it contained class constructs.
  - ANS: F PTS: 1 REF: 35-36
- 17. One of the design goals of C++ was that it would be highly portable.
  - ANS: T PTS: 1 REF: 36
- 18. C++ was not intended to undergo incremental development.
  - ANS: F PTS: 1 REF: 36
- 19. C++ was designed to be a multiparadigm language that would not enforce any one style of programming.
  - ANS: T PTS: 1 REF: 36
- 20. C++ is an open source language that has never had a commercial release.
  - ANS: F PTS: 1 REF: 37
- 21. C++ does not have a formal language definition.
  - ANS: F PTS: 1 REF: 37
- 22. Python was designed to bridge the gap between a systems language like C and a shell language like Perl.
  - ANS: T PTS: 1 REF: 38
- 23. Python is type-checked at runtime.
  - ANS: T PTS: 1 REF: 40
- 24. When no type errors are caught during execution, we can infer that they do not exist.

ANS: F PTS: 1 REF: 40

25. A program written in Python will require many more lines of code than if it were written in C++.

ANS: F PTS: 1 REF: 40

# MULTIPLE CHOICE

1.	The quality of a lang concisely, and quickl a. efficiency	-	r to express a computation clearly, correctly, orthogonality			
	b. regularity				writability	
		PTS:	1	REF:		
2.	Which of the followi	ng is a f	unctional lang			
	a. Lisp b. ALGOL				Python FORTRAN	
	ANS: A	PTS:	1	REF:	28	
3.	Which of the following is an object-oriented language?					
	a. C++ b. C				FORTRAN Algol	
	ANS: A	PTS:	1	REF:	-	
4.	Attempts to make pro a. better documenta		ing languages		liable led to the development of improved writability	
	b. strong data typin				increased efficiency	
	ANS: B	PTS:	1	REF:	28	
5.	<ul> <li>A programming language's expressiveness</li> <li>a. refers to how easy it is to express complex processes</li> <li>b. refers to the efficiency of the code</li> <li>c. refers to how well its features are integrated</li> <li>d. refers to its level of generality</li> </ul>					
	ANS: A	PTS:	1	REF:	29	
6.	A language achieves a. orthogonality b. efficiency	by	v avoiding spec	c.	es in the use of constructs. generality uniformity	
	ANS: C	PTS:	1	REF:	·	
7.	A language is said to meaningful way, with a. generality b. orthogonality				ts constructs can be combined in any uniformity efficiency	
	ANS: B	PTS:	1	REF:		
			-			

8.				if i	t has a design in which similar things look		
	similar, and different	things	look different.				
	a. generality			с. d.	orthogonality		
	b. uniformity			a.	efficiency		
	ANS: B	PTS:	1	REF:	31		
9.	lack of in the la			_	procedures to be assigned to variables indicates a		
	a. uniformity				orthogonality		
	b. generality			d.	efficiency		
	ANS: B	PTS:	1	REF:	31		
10.	The fact that C does in the language		w array types t	o be the	e return value of a function indicates a lack of		
	a. generality			с.	orthogonality		
	b. uniformity			d.	efficiency		
	ANS: C	PTS:	1	REF:	31		
11.	<ul> <li>Which of the following is an example of lack of generality in a language?</li> <li>a. In C, arrays cannot be directly compared using the == operator.</li> <li>b. In Pascal, functions can return only scalar or pointer types as values.</li> <li>c. In C, local variables can only be defined at the beginning of a block.</li> <li>d. In Pascal, return statements in functions look like assignments to variables.</li> </ul>						
	ANS: A	PTS:	1	REF:	31		
12.	Because C++ require said to lack	es a sem	icolon after a c	lass def	finition but not after a function definition, C++ is		
	a. orthogonality			с.	reliability		
	b. security			d.	÷		
	ANS: D	PTS:	1	REF:	32		
13.	The irregularities of process concern with	primitiv	ve types and ref	erence	types in Java is the result of the designer's		
	a. efficiency			с.	regularity		
	b. orthogonality			d.	generality		
	ANS: A	PTS:	1	REF:	33		
14.	Which of the followi a. Generality b. Regularity	ng is m	ost closely rela	c.			
	<b>c ·</b>	580			•		
	ANS: C	PTS:	1	REF:	33		
15.				e langua	mpiling or executing any statements or age is said to be semantically safe orthogonal		
	ANS: C	PTS:	1	REF	33-34		
			-				

16.	A language that allow	vs the user to add featu	ires to i	t is said to have the property of				
	a. uniformity			extensibility				
	b. regularity		d.	reliability				
	ANS: C	PTS: 1	REF:	34				
17.	A specifies the syntax of a piece of code that expands to other standard code							
	a. compiler		с.	function				
	b. macro		d.	procedure				
	ANS: B	PTS: 1	REF:	34				
18.	The first implementat	ion of C++ used	.•					
	a. a compiler named			an interpreter named Cfront				
	b. a preprocessor na	med Cfront	d.	a compiler named Cpre				
	ANS: A	PTS: 1	REF:	36				
19.	C++							
	a. is an object-orien							
	b. is a functional typ	be language accepted set of standa	rda					
	d. is not widely used		lus					
	ANS: A	PTS: 1	REF:	37				
20.	Python was originally	designed for						
	a. scientists and eng	ineers and other non-p	progran	nmers				
	b. expert programme							
	<ul><li>c. large scale system</li><li>d. time-critical system</li></ul>							
	•	PTS: 1	REF:	38				
21	Which of the fallowing		<b>h</b> .: <b>h</b> .:4a	d has Dath and				
21.	Which of the followir a. simplicity	ig properties is least e		a by Python? extensibility				
	b. portability			efficiency				
	ANS: D	PTS: 1	REF:	38-39				
22.								
	a. Ada		• •	C++				
	b. C		d.	Python				
	ANS: D	PTS: 1	REF:	39				
23. Of the following languages, which is a statically typed language?								
	a. Python		c.					
	b. Lisp		d.	Ada				
	ANS: D	PTS: 1	REF:	39				
24.	Python is easy for nor	nprogrammers to learn	and us	se because				

- a. it is based on a small but powerful set of primitive operations and data types that can be easily extended
- b. it has a very rich set of data types

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- c. it is highly portable to multiple platforms
- d. it does not support advanced abstractions

ANS: A PTS: 1 REF: 38

25. The real benefit of deferring type checking until runtime is \_\_\_\_\_.

a. greater runtime efficiencyb. greater programmer efficiency

c. higher program reliability

d. higher program safety

ANS: B PTS: 1 REF: 40