



C6030-042^{Q&As}

Developing with IBM Enterprise PL/I

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QUESTION 1

Which of the following is a typical deadlock situation?

Situation 1:

Transaction A waiting for resource_2 and Transaction B waiting for resource_1 while resource_1 is held by Transaction C and resource_2 is held by Transaction B

Situation 2:

Transaction A waiting for resource_1 and Transaction B waiting for resource_2 while resource_1 is held by Transaction B and resource_2 is held by Transaction C

Situation 3:

Transaction A Waiting for resource_2, Transaction B waiting for resource_3, Transaction C waiting for resource_1 ,while resource_1 ,resource_2 and resource_3 are held by Transactions A, B and C respectively.

Situation 4:

Transaction B waiting for resource_1 and Transaction C waiting for resource 2 while resource_1 is held by Transaction C and resource_2 is held by Transaction A

- A. Situation 1
- B. Situation 2
- C. Situation 3
- D. Situation 4

Correct Answer: C

QUESTION 2

The following coding standards are enforced at a programming shop:

*

All procedures must include a comment describing its function



*
All automatic variables must be explicitly initialized when declared * No nested IF statements (implement as SELECT)

Considering the following code, how many coding standard violations exist? CALL P1(1); /* ----- proc

p1----- */

P1: PROC(I);

DCL I BIN FIXED(31);

DCL (J,K) BIN FIXED(31) INIT(0);

IF I = 1

THEN IF J = 2 THEN K = 3; ELSE K = 4; ELSE K = 5; END;

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: B

QUESTION 3

A module which is serially reusable has which of the following characteristics?

- A. Is intended for single use only and must be refreshed from disk before it can be invoked again
- B. Must contain the necessary logic to reset control variables and data areas at entry or exit and a second task may not enter the module until the first task has finished
- C. Is designed for concurrent execution by multiple tasks
- D. All or part of it may be replaced at any time by the operating system

Correct Answer: B

QUESTION 4

What happens after executing the following code, assuming the input file has more than 1 record?

```
DCL INPFILE FILE RECORD INPUT ENV(VB RECSIZE(100)); DCL P PTR; DCL B CHAR(100) VARYING  
BASED(P);
```



```
DCLC CHAR(110) VARYING BASED(P);
```

```
READ FILE(INPFILE) SET(P);
```

```
C=B!! \\EXTENDED
```

```
READ FILE(INPFILE) SET(P);
```

- A. Two records are read.
- B. The results are unpredictable.
- C. Protection exception because of the reference to B.
- D. ENDFILE condition is raised on the second read.

Correct Answer: B

QUESTION 5

Which of the following techniques, if any, can be used to parallelize a PL/I program?

- A. Attach threads to pieces or work that are independent from others
- B. Attach a thread to every subroutine in the program.
- C. Attach a thread to every external entry in the program.
- D. Parallelization is not possible in PL/I program.

Correct Answer: A

QUESTION 6

In which of the following cases is a performance analyzer tool NOT useful?

- A. To time and tune programs
- B. To locate program hangs and deadlocks
- C. To show the frequency and duration of function calls
- D. To identify the code causing a storage overlay

Correct Answer: D

QUESTION 7

Given the following code example, what is the value of A after the last CALL to ADD_RUT? PGM2: PROC

```
OPTIONS(MAIN,REENTRANT) REORDER;
```



DCL A BIN FIXED (15);

A =1

CALL ADD_RUT (A);

CALL ADD_RUT (A);

CALL ADD_RUT (A);

ADD_RUT: PROC (VAL);

DCL VAL DEC FIXED (15);

VAL = VAL + 1;

END ADD_RUT;

END PGM2;

A. 4

B. 3

C. 2

D. 1

Correct Answer: D

QUESTION 8

Which of the following declarations is NOT accepted by the compiler?

A. DCL A (3,3) FLOAT DEC (16) INIT ((3)(3)1);

B. DCL B (3,3) FLOAT DEC (16) INIT ((3)(1), (2)(1,1,1));

C. DCL C (3,3) FLOAT DEC (16) INIT ((9)1);

D. DCL D (3,3) FLOAT DEC (16) INIT ((*)1);

Correct Answer: A

QUESTION 9

What is a program specification document?

A. A description of what the program does and how it can be used

B. A description of how the program does its work

C. The pseudocode of the program



D. The history of changes of the program and how it was used

Correct Answer: A

QUESTION 10

Given the following declarations, which statement correctly refers to X? DCL R CHAP(10);

DCLX CHAR(10) BASED;

DCL P PTR;

DCLZ CHAR(10);

P = ADDR(R);

A. Z = P -> X;

B. P = ADDR(X);

C. Z = X;

D. X=\\'THIS IS X\\';

Correct Answer: A

QUESTION 11

It becomes apparent that the deadline to implement and test all the functions required for an application is at risk. Which of the following is the best course of action?

A. Inform management that more people are required.

B. Inform management that some functions will not have been tested when the system is implemented.

C. Inform management that the deadline has to be changed.

D. Inform the team and the sponsor about the problem and discuss possible solutions.

Correct Answer: D

QUESTION 12

Given the following statements, where will the variables A, B and C be allocated?

DCL A FIXED;

DCL B CHAR(80) BASED(P);

DCL C CHAR(1000) CONTROLLED;



DCL D AREA(1000);

DCL P PTR STATIC;

ALLOC C;

ALLOC B IN(D);

A. A in STACK, B and C are in HEAP

B. A in HEAP, B and C are in STACK

C. A and B are in STACK, C in HEAP

D. A in STACK, B in STATIC, C in HEAP

Correct Answer: C

QUESTION 13

Given the following code, which DECLARE should NOT be used for a reentrant program? DCL B BIN FIXED(31,0) INIT(4);

A = B;

A. DCL A BIN FIXED (31,0) INIT(0);

B. DCL A BIN FIXED (31,0) INIT(0) STATIC;

C. DCL A BIN FIXED (31,0) INIT(0) AUTOMATIC;

D. DCL A BIN FIXED (31,0);

Correct Answer: B

QUESTION 14

A file containing FIXED BINARY fields that is written by a PL/I program on Intel Architecture is to be read by PL/I programs on Intel Architecture and on the mainframe. What must be changed in the program which reads the file on Intel architecture, if anything, for it to work correctly when it runs on the mainframe?

A. The program must declare the FIXED BINARY fields with the attribute NATIVE.

B. The program must declare the FIXED BINARY fields with the attribute LITTLEENDIAN.

C. The program must declare the FIXED BINARY fields with the attribute BIGENDIAN.

D. Nothing needs to be changed.

Correct Answer: B



QUESTION 15

Given the following declaration, how many bytes will be occupied by this structure under the default alignment rules?

DCL 1 A DIM (10), 2 B FIXED BIN (31), 2 C CHAR (1)VAR;

A. 70

B. 77

C. 79

D. 80

Correct Answer: C

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