

\_\_\_\_\_ **Test ID Number**

\_\_\_\_\_ **Student ID Num**

Points	Descriptive Rubric
20	perfect or tiny mistake
17	one small mistake
15	two small mistakes
13	lots of progress, one large mistake
7	some progress, several large mistakes
0	no substantial progress

**Identification:** Each sheet will ask for your Name, your Test ID Number, your Student ID Number, or maybe nothing. Provide exactly what is requested, no more, no less, and write it in the place provided. Do NOT provide ID information on ANY sheet unless it was requested. I take away points if you do. Some sheets want your Test ID instead of your name. This helps the grading be more fair when partial credit is involved.

The Test ID Number given above is assigned to you for this test. Please write it on each page that requests your test ID number.

Write your seven-digit BYUH Student ID number in the blank above. Do not write your name.

The “In-Class Test Rules” provided herewith apply to this exam.

**Turning In Your Test** You must stop writing when I tell you to stop. If you keep writing, I will probably deduct points from your score.

If the pages of the test are numbered, put them in the order of those numbers.

If the pages of the test are **not** numbered, put the “In-Class Test Rules” on top. Put this sheet second. Put the individual problem solutions next, in order by problem number. Put any remaining sheets next. Put the “Hints” sheet last.

Why? This prevents me from seeing or memorizing your test ID number, as that might hurt my ability to grade anonymously.

**Grading** Some questions are easy. Some are difficult. They are each worth the same number of points. Try to do the easy ones first.

Each problem will be graded on the following scale:

Points are awarded for achieving the major goal of the problem. Points are not awarded for merely providing incidental details without making substantial progress toward the major goal.

Points can be lost for including extraneous work, as this suggests you do not know what is needed, and you are simply throwing in whatever comes to mind in hopes that some of it is right.

Points can be lost for presenting a correct solution that is substantially less efficient than the desired solution. In particular, the use of unnecessary loops can cost points.

**The “Curve.”** I usually curve the scores by ignoring the top few and calling the next one the baseline. If the baseline is 70 and your raw score is 55, your final score will be moved up to  $55/70 = 78.6\%$ .

**Please Write Clearly:** Try to make it easy for me to read your answers. I sometimes have difficulty reading faint writing, cursive writing, incomplete erasures with other writing over the top of it, and really small writing.

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## 1 Found or Not

Write a (non-CGI) perl program that connects to a database and examines a table. If the table contains a row with a `VEH_COLOR` of "black", print "found" else print "not found". Make your program as short and fast as possible.

If a database is not specified, use "DDD".  
If a hostname is not specified, use "HHH".  
If a password is not specified, use "PPP".  
If a table is not specified, use "TTT".  
If a user is not specified, use "UUU".  
Never use your own database, username, or password.

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## 2 Cost List

Write a (non-CGI) perl program that connects to a database and examines a table. Its first column is GPA. Use a loop to retrieve every row in the table. For each row, if and only if the GPA is greater than 3.33, print the GPA. Make your program as short and fast as possible.

If a database is not specified, use "DDD".  
If a hostname is not specified, use "HHH".  
If a password is not specified, use "PPP".  
If a table is not specified, use "TTT".  
If a user is not specified, use "UUU".  
Never use your own database, username, or password.

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### 3 Buy One

Write a (non-CGI) perl program that connects to a database and modifies the INVENTORY table by reducing QUANTITY by one for the row that has PRODUCT\_ID equal to 123. (You can assume there is exactly one such row.) Make your program as short and fast as possible.

If a database is not specified, use "DDD".  
If a hostname is not specified, use "HHH".  
If a password is not specified, use "PPP".  
If a table is not specified, use "TTT".  
If a user is not specified, use "UUU".  
Never use your own database, username, or password.