# QUIZ!

Use a full sheet of 8½x11" paper.  (Half sheet?  Half credit!)

Put **only your last name** in the **far upper left hand corner** of the paper, where a staple would hit it.  (It's OK to write BIG, just start in the corner!)

*Mitchell*   **AVOID A ½-POINT DEDUCTION!**

Numbering responses may help you avoid overlooking a question; it's ok to go ahead and pre-number your sheet.

Feel free to abbreviate.

3 questions plus two ECs; 3 minutes; 3 points.

1. What's the idea of failure in Icon?

2. What's a generator in Icon?

3. Approximately how many primitive operations does Icon's string scanning facility comprise?

EC ½ pt: What language was Icon first implemented in?

EC ½ pt: Assuming **s** is a string, write Icon code to print the characters at the odd positions in **s**, one per line.

1. *What's the idea of failure in Icon?*
   A expression can fail to produce a result. It's not zero, it's not null, it's not false. There is simply no result.

   Failure propagates outward, causing enclosing expressions to fail.

2. *What's a generator in Icon?*
   A simple definition: An expression that can produce more than one result.

3. *Approximately how many primitive operations does Icon's string scanning facility comprise?* Nine procedures and the **?** operator.

EC ½ pt:   What language was Icon first implemented in? Ratfor

*EC ½ pt:   Assuming* **s** *is a string, write Icon code to print the characters at the odd positions in* **s**, *one per line.*

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every write(s[1 to *s by 2])
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