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.


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