

Regular Expressions

Do NOT write on this test. Record all answers on the bubble sheet. **Closed book. No notes.** Work strictly from memory. **No calculators. No time limit. Scratch paper okay.**

Matching: Which Perl regular expression commands have what meaning? (If no match mark J.)

- (A) * (B) + (C) \2 (D) \e (E) \i (F) \s (G) \t (H) {,n,} (I) |
 1/1p. or (alternation)
 2/1p. tab
 3/1p. second back-reference
 4/1p. exactly n times
 5/1p. the escape character
 6/1p. repeat zero or more times

Matching: Which Perl regular expression commands have what meaning? (If no match mark J.)

- (A) ((B) + (C) < (D) [(E) \f (F)] (G) ff (H) sog (I) {
 7/1p. repeat one or more times
 8/1p. start of group
 9/1p. start of character class
 10/1p. form feed
 11/1p. end of character class
 12/1p. start of multiplier

True or False: does the regular expression match the string?

- 13/1p. Does the regular expression “dw+q” match the string “dwdwq”?
 14/1p. Does the regular expression “(hc)+|yw” match the string “hcc”?
 15/1p. Does the regular expression “w*gp” match the empty string?
 16/1p. Does the regular expression “rb?|c” match the string “c”?
 17/1p. Does the regular expression “(d|wh)?” match the string “d”?
 18/1p. Does the regular expression “yc?(pq)?” match the string “ycyc”?
 19/1p. Does the regular expression “a+a+” match the string “a”?
 20/1p. Does the regular expression “(nn)?” match the string “nn”?
 21/1p. Does the regular expression “(nx)?|zx(rn)*” match the string “zxrn”?
 22/1p. Does the regular expression “(rs+|qt*)+” match the string “rsq”?
 23/1p. Does the regular expression “g?q*fy” match the string “qqfy”?
 24/1p. Does the regular expression “(nf)+pz(sz)*” match the string “nfpzs”?
 25/1p. Does the regular expression “(n+(ud)+|q)?” match the string “ududq”?
 26/1p. Does the regular expression “fy?|(c+g)+” match the string “fyfygg”?
 27/1p. Does the regular expression “f+|st?d” match the string “std”?
 28/1p. Does the regular expression “(r*u)*rr|b” match the string “rrurrrb”?
 29/1p. Does the regular expression “tu?(bk)?t?” match the string “tutubt”?
 30/1p. Does the regular expression “r?(ry)?c+|z” match the string “ryry”?

Total points 30.

Answer Key (points per line)

1 (1). I	
2 (1). G	
3 (1). C	
4 (1). J	
5 (1). D	
6 (1). A	
7 (1). B	
8 (1). A	
9 (1). D	
10 (1). E	
11 (1). F	
12 (1). I	
13 (1). false	
14 (1). false	
15 (1). false	
16 (1). true	
17 (1). true	
18 (1). false	
19 (1). false	
20 (1). true	
21 (1). true	
22 (1). true	
23 (1). true	
24 (1). true	
25 (1). false	
26 (1). false	
27 (1). true	
28 (1). false	
29 (1). false	
30 (1). false	

Total points 30.