

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) \D (D) \d (E) \n (F) \t (G) ^ (H) sog (I) {n,m}

- 1/1p. tab
- 2/1p. carriage return
- 3/1p. non-digit
- 4/1p. start of group
- 5/1p. end of string
- 6/1p. at least n times, at most m

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

(A)) (B) + (C) > (D) \A (E) \B (F) \a (G) \b (H) \f (I) eog

- 7/1p. end of multiplier
- 8/1p. repeat one or more times
- 9/1p. form feed
- 10/1p. end of group
- 11/1p. alarm (alert)
- 12/1p. word boundary

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

- 13/1p. Does the string “syf” match the regular expression “sn?yf”?
- 14/1p. Does the string “wg” match the regular expression “(wt)?wg”?
- 15/1p. Does the string “harh” match the regular expression “ha?|rh”?
- 16/1p. Does the string “xr” match the regular expression “(xr)?|uh”?
- 17/1p. Does the empty string match the regular expression “bu*”?
- 18/1p. Does the string “kk” match the regular expression “k*|(uk)*”?
- 19/1p. Does the string “sh” match the regular expression “(na)+|sh|k”?
- 20/1p. Does the string “cp” match the regular expression “(h?|cp)?”?
- 21/1p. Does the string “hnncy” match the regular expression “(hn)?cy?”?
- 22/1p. Does the string “dbyaa” match the regular expression “(db)*|ya+”?
- 23/1p. Does the string “gs” match the regular expression “hs|rk|(gs)*”?
- 24/1p. Does the string “aaaa” match the regular expression “b+|(a*)*”?
- 25/1p. Does the string “kngxh” match the regular expression “r+kn|gk+xh”?
- 26/1p. Does the string “dswnn” match the regular expression “(ds)?|wu|wn*”?
- 27/1p. Does the string “ffybffyb” match the regular expression “(f+yb)+xs*”?
- 28/1p. Does the string “zssrs” match the regular expression “xq|z|s*rs”?
- 29/1p. Does the string “dppzzkgwz” match the regular expression “dp+zz|kg|(wz)+”?
- 30/1p. Does the string “fnnaatkkk” match the regular expression “(fn+|a+|(tk)?)*”?

Total points 30.

Answer Key (points per line)

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

Total points 30.