

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) \B (D) \S (E) \b (F) \nn (G) \xnn (H) {,n,} (I) {n}

1/1p. word boundary

2/1p. non whitespace

3/1p. not a word boundary

4/1p. hex character nn

5/1p. repeat zero or more times

6/1p. exactly n times

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

(A) ((B) ? (C) \1 (D) \f (E) \t (F) \w (G) sog (H) {n,m} (I) {n..m}

7/1p. start of group

8/1p. tab

9/1p. first back-reference

10/1p. non a word character

11/1p. repeat zero or one times

12/1p. at least n times, at most m

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

13/1p. Does the regular expression “`tu?kx`” match the string “`tkx`”?

14/1p. Does the regular expression “`fh+xx`” match the empty string?

15/1p. Does the regular expression “`(hw)+c`” match the string “`hwhwc`”?

16/1p. Does the regular expression “`dz|qb`” match the string “`dzqb`”?

17/1p. Does the regular expression “`zu|n`” match the string “`zu`”?

18/1p. Does the regular expression “`dq?u?`” match the string “`u`”?

19/1p. Does the regular expression “`n|q*`” match the string “`qq`”?

20/1p. Does the regular expression “`bd+r+`” match the string “`bdr`”?

21/1p. Does the regular expression “`w?|f|u+`” match the string “`wu`”?

22/1p. Does the regular expression “`(ua)*|fk|z`” match the string “`uafkz`”?

23/1p. Does the regular expression “`db|kc(qt)?`” match the string “`dbkc`”?

24/1p. Does the regular expression “`(z|s|tk)+`” match the string “`zstzkzstk`”?

25/1p. Does the regular expression “`a|(yf?u)?`” match the string “`a`”?

26/1p. Does the regular expression “`h+nb+r`” match the string “`hnr`”?

27/1p. Does the regular expression “`a?(p|yg)*`” match the string “`apyg`”?

28/1p. Does the regular expression “`b?gq(nt)+fu`” match the string “`bgqntfu`”?

29/1p. Does the regular expression “`p+bd|sx?bc`” match the string “`ppbd`”?

30/1p. Does the regular expression “`(hb)+|u?|ug?k`” match the empty string?

Total points 30.

Answer Key (points per line)

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

Total points 30.