

Regular Expressions

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

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

- 1/1p. Does the empty string match the regular expression `"ct|xa"`?
- 2/1p. Does the empty string match the regular expression `"(gh)+fr"`?
- 3/1p. Does the string `"xxxyg"` match the regular expression `"(xx)?|yg"`?
- 4/1p. Does the string `"hz"` match the regular expression `"rx|hz"`?
- 5/1p. Does the string `"uyuy"` match the regular expression `"(uy)+"`?
- 6/1p. Does the string `"nth"` match the regular expression `"(nz)+|th"`?
- 7/1p. Does the string `"st"` match the regular expression `"q*tg|st"`?
- 8/1p. Does the string `"uqguqg"` match the regular expression `"u?qg?"`?
- 9/1p. Does the string `"zns"` match the regular expression `"z*|ns"`?
- 10/1p. Does the string `"tnh"` match the regular expression `"bc?|tc?nh"`?
- 11/1p. Does the string `"y"` match the regular expression `"nr?g|y+"`?
- 12/1p. Does the empty string match the regular expression `"rx?|kc+"`?
- 13/1p. Does the string `"fgfgdz"` match the regular expression `"fg+dz|(as)*|th"`?
- 14/1p. Does the string `"rkkrrza"` match the regular expression `"(rk)?|un|kr+|za"`?
- 15/1p. Does the string `"tbuu"` match the regular expression `"((tp)*x+|bu)?"`?
- 16/1p. Does the string `"nkr"` match the regular expression `"nh|nn*kr"`?
- 17/1p. Does the string `"utn"` match the regular expression `"(ut*|n?)+|bz*"`?
- 18/1p. Does the string `"uu"` match the regular expression `"u+((hx)?)?(da)+"`?
- 19/1p. Does the string `"yfwcr"` match the regular expression `"yk*f|w+|cr|cx"`?
- 20/1p. Does the string `"xuxufhca"` match the regular expression `"((xu)?|fh|ca)*"`?

Total points 20.

QR2

Answer Key (points per line)

- | | |
|---------|-------|
| 1 (1). | false |
| 2 (1). | false |
| 3 (1). | false |
| 4 (1). | true |
| 5 (1). | true |
| 6 (1). | false |
| 7 (1). | true |
| 8 (1). | false |
| 9 (1). | false |
| 10 (1). | true |
| 11 (1). | true |
| 12 (1). | false |
| 13 (1). | false |
| 14 (1). | false |
| 15 (1). | false |
| 16 (1). | true |
| 17 (1). | true |
| 18 (1). | true |
| 19 (1). | false |
| 20 (1). | true |

Total points 20.