Write a program that validates a phone number entered by the user. Use one pattern. If the number is valid, you will print it out in the format (###) ###-####. The examples below are all valid phone numbers.

(419)123-4567

(419) 123-4567

419-123-4567

419.123.4567

***Invalid numbers:***

419\_123\_4567 *Not accepted*

(419)123-456 *Not accepted*

4191234567 *Not accepted*

419123456 *Not accepted*

Scoring:

All 4 formats are accepted (3 pts each) \_\_\_\_\_/12

Invalid formats not accepted (2 pts each) \_\_\_\_\_/8

Valid phone numbers print in proper format

regardless of how they were entered. (2 pts ea) \_\_\_\_\_/8

Project uses Pattern, Matcher and groups \_\_\_\_\_/6

Total \_\_\_\_\_/34