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import pytest
import re
from pydantic import BaseModel
from agentparse import JsonOutputParser
# Define a sample Pydantic model for testing
class MyModel(BaseModel):
  name: str
  age: int
# Test the initialization of JsonOutputParser
def test_json_output_parser_initialization():
  parser = JsonOutputParser(MyModel)
  assert parser.pydantic_object == MyModel
  assert isinstance(parser.pattern, re.Pattern)
# Test parsing valid JSON from text
def test_parse_valid_json():
  parser = JsonOutputParser(MyModel)
  text = ""
  model = parser.parse(text)
```

JsonOutputParser

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assert model.name == "John"
  assert model.age == 42
# Test parsing without JSON code block
def test_parse_without_json_code_block():
  parser = JsonOutputParser(MyModel)
  text = '{"name": "John", "age": 42}'
  model = parser.parse(text)
  assert model.name == "John"
  assert model.age == 42
# Test parsing with no matching pattern
def test_parse_no_match_pattern():
  parser = JsonOutputParser(MyModel)
  text = "This is some random text without JSON."
  with pytest.raises(Exception) as exc_info:
    parser.parse(text)
  assert "Failed to parse MyModel" in str(exc_info.value)
# Test get_format_instructions method
def test_get_format_instructions():
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parser = JsonOutputParser(MyModel)
instructions = parser.get_format_instructions()
assert "JSON Formatting Instructions:" in instructions
assert "name": {"type": "string"}' in instructions
assert "age": {"type": "integer"}' in instructions
```