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import pytest

from swarms.structs.round_robin import RoundRobinSwarm

from swarms.structs.agent import Agent


@pytest.fixture
def round_robin_swarm():

    agents = [Agent(name=f"Agent{i}") for i in range(3)]

    return RoundRobinSwarm(agents=agents, verbose=True, max_loops=2)


def test_init(round_robin_swarm):

    assert isinstance(round_robin_swarm, RoundRobinSwarm)

    assert round_robin_swarm.verbose is True

    assert round_robin_swarm.max_loops == 2

    assert len(round_robin_swarm.agents) == 3


def test_run(round_robin_swarm):

    task = "test_task"

    result = round_robin_swarm.run(task)

    assert result == task

    assert round_robin_swarm.index == 0
```