class Film: def \_\_init\_\_(self, title, genre, duration, release\_year): self.title = title self.genre = genre self.duration = duration # in minutes self.release\_year = release\_year def \_\_repr\_\_(self): return f"Film(title={self.title}, genre={self.genre}, duration={self.duration} min, year={self.release\_year})" such as theaters or streaming platformsclass Distributor: def \_\_init\_\_(self, name, distribution\_type): self.name = name self.distribution\_type = distribution\_type # Theaters, Streaming, DVD, etc. self.films = [] def add\_film(self, film): self.films.append(film) def \_\_repr\_\_(self): return f"Distributor(name={self.name}, type={self.distribution\_type}, films={[film.title for film in self.films]})"class DistributionNetwork: def \_\_init\_\_(self): self.distributors = [] def add\_distributor(self, distributor): self.distributors.append(distributor) def distribute\_film(self, film): print(f"Distributing {film.title} to all distributors...") for distributor in self.distributors: distributor.add\_film(film) print(f"{film.title} added to {distributor.name} ({distributor.distribution\_type})") def show\_network(self): for distributor in self.distributors: print(distributor)film1 = Film("Inception", "Sci-Fi", 148, 2010)film2 = Film("Titanic", "Romance", 195, 1997)theater = Distributor("AMC Theaters", "Theater")netflix = Distributor("Netflix", "Streaming")dvd = Distributor("Warner Home Video", "DVD")network = DistributionNetwork()network.add\_distributor(theater)network.add\_distributor(netflix)network.add\_distributor(dvd)network.distribute\_film(film1)network.distribute\_film(film2)