

Java Class Name: Profile		Method Signature: public int compareTo(Profile profile)	
Test Case #	Functional Requirement or Test Objective	Test Description and Input Data	Expected Result/Output
1	Verify compareTo behavior with different last names	Profile p1 = new Profile("John", "Adams", new Date(1990, 5, 15)); Profile p2 = new Profile("Mike", "Brown", new Date(1990, 5, 15));	Return value should be -1 since 'Adams' comes before 'Brown' alphabetically
2	Verify compareTo behavior with same last name but different first names	Profile p3 = new Profile("Alice", "Smith", new Date(1990, 5, 15)); Profile p4 = new Profile("Bob", "Smith", new Date(1990, 5, 15));	Return value should be -1 since 'Alice' comes before 'Bob' alphabetically
3	Verify compareTo behavior with identical names but different DOB	Profile p5 = new Profile("John", "Smith", new Date(1990, 5, 15)); Profile p6 = new Profile("John", "Smith", new Date(1995, 5, 15));	Return value should be -1 since the first DOB is earlier
4	Verify compareTo behavior with different last names (reverse order)	Profile p7 = new Profile("John", "Wilson", new Date(1990, 5, 15)); Profile p8 = new Profile("Mike", "Thompson", new Date(1990, 5, 15));	Return value should be 1 since 'Wilson' comes after 'Thompson' alphabetically
5	Verify compareTo behavior with same last name but different first names (reverse order)	Profile p9 = new Profile("Mike", "Smith", new Date(1990, 5, 15)); Profile p10 = new Profile("John", "Smith", new Date(1990, 5, 15));	Return value should be 1 since 'Mike' comes after 'John' alphabetically
6	Verify compareTo behavior with identical names but different DOB (reverse order)	Profile p11 = new Profile("John", "Smith", new Date(1995, 5, 15)); Profile p12 = new Profile("John", "Smith", new Date(1990, 5, 15));	Return value should be 1 since the first DOB is later
7	Verify compareTo behavior with identical	Profile p13 = new Profile("John", "Smith", new Date(1990, 5, 15));	Return value should be 0 since the profiles are identical

	profiles	Profile p14 = new Profile("John", "Smith", new Date(1990, 5, 15));	