**import** java.lang.reflect.Array;

//-------------------------------------------------------------

// Author: Shyaan Khan Period: 4 Date:

// Description:

//-----------------------------------------------------------

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**public** **class** Test {

**public** **static** **void** main(String[]args)

{

**int**[] arrays1 = {87,78,90};

**int**[] arrays2 = {90,95,87};

**int**[] arrays3 = {67,77,68};

**int**[] arrays4 = {80,85,80};

**int**[] arrays5 = {76,69,79};

Student s1 = **new** UnderGrad("John Doe", arrays1, " ");

Student s2 = **new** GradStudent("Jill Jones", arrays2, " ", 0001);

Student s3 = **new** GradStudent("Jack Smith", arrays3, " ", 0002);

Student s4 = **new** UnderGrad("Mary Hines", arrays4, " ");

Student s5 = **new** UnderGrad("Mick Taylor", arrays5, " ");

Student[] students = {s1,s2,s3,s4,s5};

System.***out***.println("Average Test Score for "+s1.getName()+" is "+s1.getTestAverage());

System.***out***.println("Average Test Score for "+s2.getName()+" is "+s2.getTestAverage());

System.***out***.println("Average Test Score for "+s3.getName()+" is "+s3.getTestAverage());

System.***out***.println("Average Test Score for "+s4.getName()+" is "+s4.getTestAverage());

System.***out***.println("Average Test Score for "+s5.getName()+" is "+s5.getTestAverage());

**int** Ucount = 0;

**int** totalUnderGrad = 0;

**int** Gcount = 0;

**int** totalGrad = 0;

**for**(**int** i = 0; i < students.length;i++)

{

students[i].computeGrade();

**if**(students[i] **instanceof** UnderGrad)

{

totalUnderGrad++;

**if**(students[i].getGrade().equals("Pass"))

{

Ucount++;

}

}

**if**(students[i] **instanceof** GradStudent)

{

totalGrad++;

**if**(students[i].getGrade().equals("Pass"))

{

Gcount++;

}

}

}

System.***out***.println(((Ucount/totalUnderGrad)\*100)+"% of the UnderGrad students passed");

System.***out***.println(((Gcount/totalGrad)\*100)+"% of the Grad Students passed");

}

}

OUTPUTS

Average Test Score for John Doe is 85.0

Average Test Score for Jill Jones is 90.66666666666667

Average Test Score for Jack Smith is 70.66666666666667

Average Test Score for Mary Hines is 81.66666666666667

Average Test Score for Mick Taylor is 74.66666666666667

100% of the UnderGrad students passed

100% of the Grad Students passed