

Exercise Set A

Task 1:

Write a java program that reads 10 numbers from the user, and then prints them in the reverse order.

Task 2:

Write a java program that reads 20 numbers from the user, and then prints only the even numbers in reverse order.

Task 3:

Write a java program that reads 10 numbers from the user. Then read another number from the user, and print “yes” if this number exists among the first 10. Print “no” otherwise.

Task 4:

Write a java program that reads 15 numbers from the user, all the numbers within the range 0-9. Then print the number of times each number has been entered by the user.

Task 5:

Write a java program that reads 10 numbers from the user. After reading each number, print all the numbers that have been entered so far.

Task 6:

Write a java program that reads 10 numbers from the user, but does not allow the user to enter duplicates. This means that if a number has been entered already, the

program will not accept it as input again and instead ask the user to enter a different number.

Task 7:

Write a java program that reads 10 numbers from the user. Write the program in such a way so that if the user enters 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, then the output should be 1, 3, 5, 7, 9, 2, 4, 6, 8, 10.

If the user enters 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, then the output should be 10, 30, 50, 70, 90, 20, 40, 60, 80, 100.

If the user enters 2, 5, 6, 9, 12, 13, 14, 15, 16, 17 then the output should be 2, 6, 12, 14, 16, 5, 9, 13, 15, 17.

Additional reading:

Change the following System.out.println() to a System.out.printf() method so that the output is 5.984807753012208

```
double z;  
z = 5+ Math.sin(80*Math.PI/180);  
System.out.println(z);
```

Read from the following link and try to use printf () for all variable types you know

http://web.cerritos.edu/jwilson/SitePages/java_language_resources/Java_printf_method_quick_reference.pdf