Dmitri Stanchevici

Unit 4

Module 1

## Ex. 1.1

A = {1, 3, 5, 7, 9, 11, 13, 15, 17, 19}

B = {1, 2, 3, 5, 7, 11, 13, 17, 19}

C = {1, 2, 3, 5, 7, 11, 13, 17, 19, 23, 29}

D = {3, 5, 7}

E = {2, 3}

Solve:

( ( (A intersection B) – D ) unition E ) intersection C )

1. ( ( ({1, 2, 5, 7, 11, 13, 17, 19}) – D ) unition E ) intersection C )
2. ( ( ({1, 2, 5, 7, 11, 13, 17, 19}) – {3, 5, 7} ) unition E ) intersection C )
3. ( ( {1, 2, 11, 13, 17, 19} unition {2, 3} ) intersection C )
4. ( {1, 2, 3, 11, 13, 17, 19} intersection {1, 2, 3, 5, 7, 11, 13, 17, 19, 23, 29} )
5. {1, 2, 3, 11, 13, 17, 19}

Result:

{1, 2, 3, 11, 13, 17, 19}

## Ex. 1.8

The signature of the contains method should be

public boolean contains (String s)

{

// …

}

## Ex. 1.12

Diagram

Description automatically generated with medium confidence

Diagram

Description automatically generated

Diagram

Description automatically generated

Diagram

Description automatically generated

Diagram, engineering drawing

Description automatically generated