

Lab 4

Console Output (Multiple Screenshots since couldn't fit in one picture)

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Console x Problems Debug Shell
<terminated> Main4 [Java Application] C:\Users\lucia\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe (Jun 1, 2024, 10:23:24 PM - 10:26:33 PM) [pid: 25516]

Breadth-first traversal:
$57.12 $23.44 $87.43 $18.36 $44.55 $68.99 $111.22 $11.00 $20.21 $36.18 $48.48 $77.77 $101.00 $543.21 $1.00 $21.00 $51.00 $345.67
$251.00 $151.00

In-order traversal:
$1.00 $11.00 $18.36 $20.21 $21.00 $23.44 $36.18 $44.55 $48.48 $51.00 $57.12 $68.99 $77.77 $87.43 $101.00 $111.22 $151.00 $251.00
$345.67 $543.21

Pre-order traversal:
$57.12 $23.44 $18.36 $11.00 $1.00 $20.21 $21.00 $44.55 $36.18 $48.48 $51.00 $87.43 $68.99 $77.77 $111.22 $101.00 $543.21 $345.67
$251.00 $151.00

Post-order traversal:
$1.00 $11.00 $21.00 $20.21 $18.36 $36.18 $51.00 $48.48 $44.55 $23.44 $77.77 $68.99 $101.00 $151.00 $251.00 $345.67 $543.21 $111.22
$87.43 $57.12

Breadth-first traversal with Queue:
$57.12 $23.44 $87.43 $18.36 $44.55 $68.99 $111.22 $11.00 $20.21 $36.18 $48.48 $77.77 $101.00 $543.21 $1.00 $21.00 $51.00 $345.67
$251.00 $151.00

What would you like to do? Choose an option below.
a) Add
s) Search
d) Delete
p) Print output
e) Exit program
a
Enter the whole part: 53
Enter the fraction part: 99

What would you like to do? Choose an option below.
a) Add
s) Search
d) Delete
p) Print output
e) Exit program
a
Enter the whole part: -8
Enter the fraction part: 42
java.lang.IllegalArgumentException: Negative whole or fractional value

What would you like to do? Choose an option below.
a) Add
s) Search
d) Delete
p) Print output
e) Exit program
p

Breadth-first traversal:
$57.12 $23.44 $87.43 $18.36 $44.55 $68.99 $111.22 $11.00 $20.21 $36.18 $48.48 $77.77 $101.00 $543.21 $1.00 $21.00 $51.00 $345.67
$53.99 $251.00 $151.00

In-order traversal:
$1.00 $11.00 $18.36 $20.21 $21.00 $23.44 $36.18 $44.55 $48.48 $51.00 $53.99 $57.12 $68.99 $77.77 $87.43 $101.00 $111.22 $151.00
$251.00 $345.67 $543.21

Pre-order traversal:
$57.12 $23.44 $18.36 $11.00 $1.00 $20.21 $21.00 $44.55 $36.18 $48.48 $51.00 $53.99 $87.43 $68.99 $77.77 $111.22 $101.00 $543.21
$345.67 $251.00 $151.00

Post-order traversal:
$1.00 $11.00 $21.00 $20.21 $18.36 $36.18 $53.99 $51.00 $48.48 $44.55 $23.44 $77.77 $68.99 $101.00 $151.00 $251.00 $345.67 $543.21
$111.22 $87.43 $57.12

Breadth-first traversal with Queue:
$57.12 $23.44 $87.43 $18.36 $44.55 $68.99 $111.22 $11.00 $20.21 $36.18 $48.48 $77.77 $101.00 $543.21 $1.00 $21.00 $51.00 $345.67
$53.99 $251.00 $151.00
```

What would you like to do? Choose an option below.

- a) Add
- s) Search
- d) Delete
- p) Print output
- e) Exit program

s

Enter the whole part: 87

Enter the fraction part: 43

The value, \$87.43, was found.

What would you like to do? Choose an option below.

- a) Add
- s) Search
- d) Delete
- p) Print output
- e) Exit program

s

Enter the whole part: 24

Enter the fraction part: 68

The value, \$24.68, was not found.

What would you like to do? Choose an option below.

- a) Add
- s) Search
- d) Delete
- p) Print output
- e) Exit program

s

Enter the whole part: 60

Enter the fraction part: 999

[java.lang.IllegalArgumentException](#): Fractional value out of range

What would you like to do? Choose an option below.

- a) Add
- s) Search
- d) Delete
- p) Print output
- e) Exit program

d

Enter the whole part: 20

Enter the fraction part: 21

What would you like to do? Choose an option below.

- a) Add
- s) Search
- d) Delete
- p) Print output
- e) Exit program

p

Breadth-first traversal:

\$57.12 \$23.44 \$87.43 \$18.36 \$44.55 \$68.99 \$111.22 \$11.00 \$21.00 \$36.18 \$48.48 \$77.77 \$101.00 \$543.21 \$1.00 \$51.00 \$345.67 \$53.99 \$251.00 \$151.00

In-order traversal:

\$1.00 \$11.00 \$18.36 \$21.00 \$23.44 \$36.18 \$44.55 \$48.48 \$51.00 \$53.99 \$57.12 \$68.99 \$77.77 \$87.43 \$101.00 \$111.22 \$151.00 \$251.00 \$345.67 \$543.21

Pre-order traversal:

\$57.12 \$23.44 \$18.36 \$11.00 \$1.00 \$21.00 \$44.55 \$36.18 \$48.48 \$51.00 \$53.99 \$87.43 \$68.99 \$77.77 \$111.22 \$101.00 \$543.21 \$345.67 \$251.00 \$151.00

Post-order traversal:

\$1.00 \$11.00 \$21.00 \$18.36 \$36.18 \$53.99 \$51.00 \$48.48 \$44.55 \$23.44 \$77.77 \$68.99 \$101.00 \$151.00 \$251.00 \$345.67 \$543.21 \$111.22 \$87.43 \$57.12

Breadth-first traversal with Queue:

\$57.12 \$23.44 \$87.43 \$18.36 \$44.55 \$68.99 \$111.22 \$11.00 \$21.00 \$36.18 \$48.48 \$77.77 \$101.00 \$543.21 \$1.00 \$51.00 \$345.67 \$53.99 \$251.00 \$151.00

What would you like to do? Choose an option below.

- a) Add
- s) Search
- d) Delete
- p) Print output
- e) Exit program

e

Breadth-first traversal:

\$57.12 \$23.44 \$87.43 \$18.36 \$44.55 \$68.99 \$111.22 \$11.00 \$21.00 \$36.18 \$48.48 \$77.77 \$101.00 \$543.21 \$1.00 \$51.00 \$345.67 \$53.99 \$251.00 \$151.00

In-order traversal:

\$1.00 \$11.00 \$18.36 \$21.00 \$23.44 \$36.18 \$44.55 \$48.48 \$51.00 \$53.99 \$57.12 \$68.99 \$77.77 \$87.43 \$101.00 \$111.22 \$151.00 \$251.00 \$345.67 \$543.21

Pre-order traversal:

\$57.12 \$23.44 \$18.36 \$11.00 \$1.00 \$21.00 \$44.55 \$36.18 \$48.48 \$51.00 \$53.99 \$87.43 \$68.99 \$77.77 \$111.22 \$101.00 \$543.21 \$345.67 \$251.00 \$151.00

Post-order traversal:

\$1.00 \$11.00 \$21.00 \$18.36 \$36.18 \$53.99 \$51.00 \$48.48 \$44.55 \$23.44 \$77.77 \$68.99 \$101.00 \$151.00 \$251.00 \$345.67 \$543.21 \$111.22 \$87.43 \$57.12

Breadth-first traversal with Queue:

\$57.12 \$23.44 \$87.43 \$18.36 \$44.55 \$68.99 \$111.22 \$11.00 \$21.00 \$36.18 \$48.48 \$77.77 \$101.00 \$543.21 \$1.00 \$51.00 \$345.67 \$53.99 \$251.00 \$151.00