COMPILER DESIGN LAB

WEEK 5 (22.1.19) - EXERCISE

SET A

1. Write a lex program to convert the following while statement to for statement.

```
while (condition) {
  statement(s);
}

Input:
  x = 0;
while (x < 3) {</pre>
```

print x; x = x + 1;

}

2. Convert the given switch case statement to else if statement.

```
switch (expression)
{
  case value1:
    statement1;
    break;
  case value2:
    statement2;
    break;
  default:
    statementDefault;
}
```

3. Write a lex program to convert the following nested for loop statement to nested do-while statement.

Input:

```
for ( init; condition; increment ) {
   for ( init; condition; increment ) {
      statement(s);
   }
   statement(s);
}
```

4. Write a lex program to convert the following nested if-else statement to single if-else statement.

```
if(x > y) {
    if(x > z)
        x is greater
    else
        x is not greater
}
else
    x is not greater
```

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WEEK 5 (22.1.19) - EXERCISE

SET B

1. Write a lex program to convert the following for statement to dowhile statement.

2. Convert the given if-else statement to switch case.

```
if (condition)
    statement;
else if (condition)
    statement;
.
else
    statement;
```

3. Write a lex program to convert the following nested do while statement to nested for loop statement.

Input:

```
do {
    statement(s);

    do {
        statement(s);
    }while(condition);
}while(condition);
```

4. Write a lex program to convert the following nested for statement to single for statement.