Problem 1, normal order:

```
(\lambda x. xx) ((\lambda xy.yx) z (\lambda x.x))
\mapsto ((\lambda xy.yx) z (\lambda x.x)) ((\lambda xy.yx) z (\lambda x.x))
\mapsto ((\lambda y.yz) (\lambda x.x)) ((\lambda xy.yx) z (\lambda x.x))
\mapsto ((\lambda x.x) z) ((\lambda xy.yx) z (\lambda x.x))
\mapsto z (((\lambda xy.yx) z (\lambda x.x))
\mapsto z (((\lambda y.yz) (\lambda x.x))
\mapsto z (((\lambda x.x) z)
\mapsto z z
```

Problem 1, applicative order:

Problem 2, normal order:

Problem 2, applicative order: