Mail Forwarding Example to illustrate Longest Prefix Match

Assume the following table gives the destinations to forward mail to various zip codes:

0xxxx BOSTON

1xxxx NY

2xxxx WASHINGTON DC

3xxxx ATLANTA

4xxxx DETROIT

5xxxx MINNEAPOLIS

6xxxx CHICAGO

7xxxx DALLAS

8xxxx DENVER

9xxxx L.A.

01xxx AMHERST

19xxx PHILLY

23xxx RICHMOND

63xxx ST LOUIS

94xxx S.F.

85xxx TEMPE

196xx READING

803xx BOULDER

077xx HOLMDEL

6540x ROLLA

9470x BERKELEY

Where should the mail to the following zip codes be forwarded?

63462

18160

07612

65403

94715

19632