

1) term = 5, coupon = 5, price = 103
payout = 125
value(0.05) = 99.999
value(0.02) = 114.14
macaulayDuration(0.05) = 4.54
macaulayDuration(0.02) = 4.578
irr = 0.0432

2) term = 10, coupon = 4, price = 95
payout = 140
value(0.05) = 92.278
value(0.02) = 117.965
macaulayDuration(0.05) = 8.359
macaulayDuration(0.02) = 8.579
irr = 0.0463

3) term = 20, coupon = 3, price = 92
payout = 160
value(0.05) = 75.075
value(0.02) = 116.35
macaulayDuration(0.05) = 14.47
macaulayDuration(0.02) = 15.71
irr = 0.0356

4) term = 15, coupon = 2, price = 120
payout = 130
value(0.05) = 68.86
value(0.02) = 99.99
macaulayDuration(0.05) = 12.61
macaulayDuration(0.02) = 13.1
irr = 0.006