```
N = 185 = 5*37

By the Ibukiyama-Kitayama dimension formula,
 dim(S_4(K(185))) = 78

By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S_4(K(185))^+ is 33
 the nonlift dimension of S_4(K(185))^+ is heuristically 39
 dim(S_4(K(185))^+) thus is heuristically 72
 dim(S_4(K(185))^-) is heuristically 6

The heuristic dimensions are correct by the spanning results to follow

dim(J_{2,185}^{cusp}) = 4 (Skoruppa-Zagier), so need to span to within 3 dimensions

q = 3 for TraceDown
After TD(Grit(J_{4,555}^{cusp})) and (Grit(J_{2,185}^{cusp}))^2,
 spanned rank in S_4(K(185))^+ is 72
 spanned rank in S_4(K(185))^- is 0

After Borcherds products,
 spanned rank in S_4(K(185))^- is 6

Final spanned rank in S_4(K(185))^+ is 72
Final spanned rank in S_4(K(185))^- is 6

--------------------------------------------------------------------------------

S_2(K(185)) is determined by Jacobi restriction and the H4Ndd(2,+) test
 (H_4(185,2,2)^+ = 0)

So S_2(K(185)) = Grit(J_{2,185}^{cusp}) (dimension 4)
```