```
N = 159 = 3*53

By the Ibukiyama-Kitayama dimension formula,
 dim(S_4(K(159))) = 59

By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S_4(K(159))^+ is 26
 the nonlift dimension of S_4(K(159))^+ is heuristically 29
 dim(S_4(K(159))^+) thus is heuristically 55
 dim(S_4(K(159))^-) is heuristically 4

The heuristic dimensions are correct by the spanning results to follow

dim(J_{2,159}^{cusp}) = 1 (Skoruppa-Zagier), so need to span completely

q = 5 for TraceDown
After TD(Grit(J_{4,795}^{cusp})) and (Grit(J_{2,159}^{cusp}))^2,
 spanned rank in S_4(K(159))^+ is 55
 spanned rank in S_4(K(159))^- is 0

Hecke operators applied: {{{3, 2}}}
After Hecke spreading,
 spanned rank in S_4(K(159))^- is 1

After Borcherds products,
 spanned rank in S_4(K(159))^- is 4

Final spanned rank in S_4(K(159))^+ is 55
Final spanned rank in S_4(K(159))^- is 4

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

S_2(K(159))^+ is determined by Jacobi restriction and the H4Nd1(1,+) test
 (dim(H_4(159,1,1)^+) <= 1 and this is less than dim(J_{2,159}^{cusp})+1 = 2)
S_2(K(159))^- = 0 by Jacobi restriction and the H4Nd1(1,-) test
 (dim(H_4(159,1,1)^-) <= 0 and this is less than dim(J_{2,159}^{cusp}) = 1)

So S_2(K(159)) = Grit(J_{2,159}^{cusp}) (dimension 1)
```