```
N = 133 = 7*19

By the Ibukiyama-Kitayama dimension formula,
 dim(S_4(K(133))) = 49

By the Skoruppa-Zagier dimension formula and Jacobi restriction,
 the lift dimension of S_4(K(133))^+ is 25
 the nonlift dimension of S_4(K(133))^+ is heuristically 23
 dim(S_4(K(133))^+) thus is heuristically 48
 dim(S_4(K(133))^-) is heuristically 1

The heuristic dimensions are correct by the spanning results to follow

dim(J_{2,133}^{cusp}) = 4 (Skoruppa-Zagier), so need to span to within 3 dimensions

q = 5 for TraceDown
After TD(Grit(J_{4,665}^{cusp})) and (Grit(J_{2,133}^{cusp}))^2,
 spanned rank in S_4(K(133))^+ is 48
 spanned rank in S_4(K(133))^- is 0

After Borcherds products,
 spanned rank in S_4(K(133))^- is 1

Final spanned rank in S_4(K(133))^+ is 48
Final spanned rank in S_4(K(133))^- is 1

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

S_2(K(133)) is determined by Jacobi restriction and the H4Ndd(2,+) test
 (H_4(133,2,2)^+ = 0)

So S_2(K(133)) = Grit(J_{2,133}^{cusp}) (dimension 4)
```