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June 20, 1974

Dr. Robert E. Dressler
Department of Mathematics
Kansas State University
Manhattan, Kansas 66506

Dear Dr. Dressler:

I was very interested to read your paper "12758" in Math. Comp. As it happens you have been anticipated by about 10 years - see R. L. Graham, Duke Math. J. 31 (1964), 275-286.

The next term (5134240) has also been calculated - see Shen Lin, pp. 365- of J. Leech, editor, "Computational Problems in Abstract Algebra", Pergamon, Oxford, 1970; and also sequence 2342 of my book: "A Handbook of Integer Sequences" (Academic Press, N.Y. 1973).

Do you think it would be worth printing a corrigendum in Math. Comp.?

Yours sincerely,

MH-1216-NJAS-mv

N. J. A. Sloane

An Addendum to 12,758

by

Robert E. Dressler and Thomas Parker

Our purpose in this note is to observe that the result which we proved in [1] was previously announced by R. L. Graham in [2]. We are grateful to N.J.A. Sloane for pointing this out to us. He also informs us that Shen Lin (see [3]) has shown that 5,134,240 is the largest integer which cannot be expressed as a sum of distinct fourth powers.

AMS (MOS) subject classifications (1970). Primary 10A45, 10J99.

References

1. Robert E. Dressler and Thomas Parker, 12,758, Math. Comp. Vol. 28 (1974), pp. 313-314.
2. R. L. Graham, Complete Sequences of Polynomial Values, Duke Math. J., 31 (1964), pp. 275-285.
3. J. Leech, Editor, "Computational Problems in Abstract Algebra", Pergamon, Oxford, 1970.



June 28, 1974

Dear Dr. Sloane,

I want to thank you for informing me of Graham's work and also the related works of Shen Lin. Parker and I are submitting the enclosed addendum to Math. Comp. and I think that should set the record straight. Hopefully, there will be no problem with their publishing it.

Thank you for taking the trouble to write.

Sincerely,

Robert E. Dossler