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TRL Universal Recursive Sub-Sets And Super-Sets Of A Set In Completion. (Universal Engineering Series).

Author:

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Universal Recursive Sub-Sets Of A Set In Completion.

Firstly, For the given Set S, we find its $(G+g)$ where G is a Positive Integer and $(0 \leq g < 1)$ using author's *Universal Field Theory*, detailed in [1]. Here, $(G+g)$ is the Real Order of the Universal Sequence of Primes, the first N_S of them being the Elements of S, where N_S is the Cardinality of S. That is, the Real Order $(G+g)$ can be used to generate the Set S.

Case1:

Since, the Real Order $(G+g)$ can be used to generate the Set S, the Real Order $((G+g)-r)$ can be used to generate the Set S_{-r} which is the rth Complete Recursive Sub-Set of Type 1 of the given Set S. Here, r is a Positive Integer.

Case 2:

Since, the Real Order $(G+g)$ can be used to generate the Set S, the Real Order $\left(\dfrac{(G+g)}{r}\right)$ can be used to generate the Set S_{-r} which is the rth Complete Recursive Sub-Set of Type 2 of the given Set S.

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Case 3:

Since, the Real Order $(G+g)$ can be used to generate the Set S, the Real

Order $\left(\dfrac{(G+g)}{^{(G+g)}\overset{\approx}{p}_k}\right)$ can be used to generate the Set $\overset{\approx}{S}_{-k}$ which is the kth

Complete Recursive Sub-Set of Type 3 of the given Set S.

Here, the Notation $^{(G+g)}\overset{\approx}{p}_k$ implies that the Set S which has been arranged in Increasing Order has been multiplied by a constant such that its First Element becomes Unity, and $^{(G+g)}\overset{\approx}{p}_k$ is the kth Element of thusly modified Set S.

Case 4:

Since, the Real Order $(G+g)$ can be used to generate the Set S, the Real

Order $\left(\dfrac{(G+g)}{^{(G+g)}p_k}\right)$ can be used to generate the Set S_{-k} which is the kth

Complete Recursive Sub-Set of Type 4 of the given Set S.

Here, the Notation $^{(G+g)}p_k$ implies that the Set S which has been arranged in Increasing Order has been multiplied by a constant such that its First Element becomes Unity, and $^{(G+g)}p_k$ is the kth Element of thusly modified Set S.

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Case 5: Here, we consider the $^{(Q+q)}p_m$ of the Number $(G+g)$ and find the Previous Prime Metric Element $^{(Q+q)}p_{(m-1)}$. This can be called as $(G+g)_{-1}$ which can be used to generate the First Complete Recursive Sub-Set of the given Set S. In a similar manner, we can find Prime Metric Element $^{(Q+q)}p_{(m-d)}$ which can be called as $(G+g)_{-d}$ which can be used to generate the dth Complete Recursive Sub-Set of the given Set S.

Universal Recursive Super-Sets Of A Set In Completion.

Firstly, For the given Set S, we find its $(G+g)$ where G is a Positive Integer and $(0 \leq g < 1)$ using author's *Universal Field Theory*, detailed in [1]. Here, $(G+g)$ is the Real Order of the Universal Sequence of Primes, the first N_S of them being the Elements of S, where N_S is the Cardinality of S. That is, the Real Order $(G+g)$ can be used to generate the Set S.

Case 1:

Since, the Real Order $(G+g)$ can be used to generate the Set S, the Real Order $((G+g)+r)$ can be used to generate the Set S_{+r} which is the rth Complete Recursive Super-Set of Type 1 of the given Set S. Here, r is a Positive Integer.

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Case 2:

Since, the Real Order $(G + g)$ can be used to generate the Set S, the Real Order $(r(G + g))$ can be used to generate the Set S_r which is the rth Complete Recursive Super-Set of Type 2 of the given Set S.

Case 3:

Since, the Real Order $(G + g)$ can be used to generate the Set S, the Real Order $\left({}^{(G+g)}\overset{\approx}{p}_k (G + g) \right)$ can be used to generate the Set $\overset{\approx}{S}_k$ which is the kth Complete Recursive Super-Set of Type 3 of the given Set S.

Here, the Notation ${}^{(G+g)}\overset{\approx}{p}_k$ implies that the Set S which has been arranged in Increasing Order has been multiplied by a constant such that its First Element becomes Unity, and ${}^{(G+g)}\overset{\approx}{p}_k$ is the kth Element of thusly modified Set S.

Case 4:

Since, the Real Order $(G + g)$ can be used to generate the Set S, the Real Order $\left({}^{(G+g)}p_k (G + g) \right)$ can be used to generate the Set S_k which is the kth Complete Recursive Super-Set of Type 4 of the given Set S.

Here, the Notation ${}^{(G+g)}p_k$ implies that the Set S which has been arranged in Increasing Order has been multiplied by a constant such that its First Element becomes Unity, and ${}^{(G+g)}p_k$ is the kth Element of thusly modified Set S.

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Case 5: Here, we consider the $^{(Q+q)}p_m$ of the Number $(G+g)$ and find the Next Prime Metric Element $^{(Q+q)}p_{(m+1)}$. This can be called as $(G+g)_{+1}$ which can be used to generate the First Complete Recursive Super-Set of the given Set S. In a similar manner, we can find Prime Metric Element $^{(Q+q)}p_{(m+d)}$ which can be called as $(G+g)_{+d}$ which can be used to generate the dth Complete Recursive Sub-Set of the given Set S.

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Moral

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Acknowledgements

Tribute

The author pays his sincere tribute to all those dedicated and sincere folk of academia, industry and elsewhere who have sacrificed a lot of their structured leisure time and have painstakingly authored treatises on Science, Engineering, Mathematics, Art and Philosophy covering all the developments from time immemorial until then, in their supreme works. It is standing on such treasure of foundation of knowledge, aided with an iota of personal god-gifted creativity that the author bases his foray of wild excursions into the understanding of natural phenomenon and forms new premises and scientifically surmises plausible laws. The author strongly reiterates his sense of gratitude and infinite indebtedness to all such 'Philosophical Statesmen' that are evergreen personal librarians of Science, Art, Mathematics and Philosophy.