

“yes” answer; but for numbers that do not, the algorithm will never terminate. If we invoke Church’s thesis, i.e. sets B may be thought of intuitively as sets for which there exist algorithms related to B as in the previous sentence, but without stipulating that the algorithms be expressed by programs of the language \mathcal{S} . Such algorithms, sometimes called *semi-decision procedures*, provide a kind of “approximation” to solving the problem of testing membership in B .

We have

Theorem 4.3. If B is a recursive set, then B is r.e.

Proof. Consider the program \mathcal{P} :

[A] IF $\sim (X \in B)$ GOTO A

Since B is recursive, the predicate $x \in B$ is computable and \mathcal{P} can be expanded to a program of \mathcal{S} . Let \mathcal{P} compute the function $h(x)$. Then, clearly,

$$B = \{x \in N \mid h(x) \downarrow\}. \quad \blacksquare$$

If B and \bar{B} are both r.e., we have a pair of algorithms that will terminate in case a given input is or is not in B , respectively. We can think of combining these two algorithms to obtain a single algorithm that will always terminate and that will tell us whether a given input belongs to B . This combined algorithm might work by “running” the two separate algorithms for longer and longer times until one of them terminates. This method of combining algorithms is called *dovetailing*, and the step-counter theorem enables us to use it in a rigorous manner.

Theorem 4.4. The set B is recursive if and only if B and \bar{B} are both r.e.

Proof. If B is recursive, then by Theorem 4.1 so is \bar{B} , and hence by Theorem 4.3, they are both r.e.

Conversely, if B and \bar{B} are both r.e., we may write

$$B = \{x \in N \mid g(x) \downarrow\},$$

$$\bar{B} = \{x \in N \mid h(x) \downarrow\},$$

where g and h are both partially computable. Let g be computed by program \mathcal{P} and h be computed by program \mathcal{Q} , and let $p = \#(\mathcal{P})$, $q = \#(\mathcal{Q})$. Then the program that follows computes B . (That is, the program computes the characteristic function of B .)

Computability Complexity And Languages Exercise Solutions

Damir D. Dzhafarov, Carl Mummert



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characterizations of other important complexity classes were obtained This line of work is often referred to as descriptive complexity A different line of finite model theory research is associated with the development of relational databases By the late 1970s the relational database model had replaced others and all the basic query languages for it were essentially first order predicate calculus or its minor extensions

Computer Algebra in Scientific Computing François

Boulier,Matthew England,Timur M. Sadykov,Evgenii V. Vorozhtsov,2021-08-16 This book constitutes the proceedings of the 23rd International Workshop on Computer Algebra in Scientific Computing CASC 2021 held in Sochi Russia in September 2021 The 24 full papers presented together with 1 invited talk were carefully reviewed and selected from 40 submissions The papers cover theoretical computer algebra and its applications in scientific computing

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