

"yes" answer; but for numbers that do not, the algorithm will never terminate. If we invoke Church's thesis, r.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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