

We have, for example,

**Theorem 4.1.** Let the sets  $B, C$  belong to some PRC class  $\mathcal{E}$ . Then so do the sets  $B \cup C, B \cap C, \bar{B}$ .

*Proof.* This is an immediate consequence of Theorem 5.1, Chapter 3. ■

As long as the Gödel numbering functions  $[x_1, \dots, x_n]$  and  $(x)_i$  are available, we can restrict our attention to subsets of  $N$ . We have, for example,

**Theorem 4.2.** Let  $\mathcal{E}$  be a PRC class, and let  $B$  be a subset of  $N^m$ ,  $m \geq 1$ . Then  $B$  belongs to  $\mathcal{E}$  if and only if

$$B' = \{[x_1, \dots, x_m] \in N \mid (x_1, \dots, x_m) \in B\}$$

belongs to  $\mathcal{E}$ .

*Proof.* If  $P_B(x_1, \dots, x_m)$  is the characteristic function of  $B$ , then

$$P_{B'}(x) \Leftrightarrow P_B((x)_1, \dots, (x)_m) \ \& \ \text{Lt}(x) = m$$

is the characteristic function of  $B'$ , and  $P_{B'}$  clearly belongs to  $\mathcal{E}$  if  $P_B$  belongs to  $\mathcal{E}$ . On the other hand, if  $P_{B'}(x)$  is the characteristic function of  $B'$ , then

$$P_B(x_1, \dots, x_m) \Leftrightarrow P_{B'}([x_1, \dots, x_m])$$

is the characteristic function of  $B$ , and  $P_B$  clearly belongs to  $\mathcal{E}$  if  $P_{B'}$  belongs to  $\mathcal{E}$ . ■

It immediately follows, for example, that  $\{[x, y] \in N \mid \text{HALT}(x, y)\}$  is not a computable set.

**Definition.** The set  $B \subseteq N$  is called *recursively enumerable* if there is a partially computable function  $g(x)$  such that

$$B = \{x \in N \mid g(x) \downarrow\}. \quad (4.1)$$

The term *recursively enumerable* is usually abbreviated *r.e.* A set is recursively enumerable just when it is the domain of a partially computable function. If  $\mathcal{P}$  is a program that computes the function  $g$  in (4.1), then  $B$  is simply the set of all inputs to  $\mathcal{P}$  for which  $\mathcal{P}$  eventually halts. If we think of  $\mathcal{P}$  as providing an algorithm for testing for membership in  $B$ , we see that for numbers that do belong to  $B$ , the algorithm will provide a

# Computability Complexity And Languages Exercise Solutions

**Ying Liu**



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