1. (1) A: FIRST(BCc) = { a.b.c.d} FIRST(eDB) = {e}

B: FIRST(\(\frac{1}{2}\)) = {\frac{1}{2}} FIRST(\(\frac{1}{2}\)C = {\frac{1}{2}}

FOLLOW(B) = {\frac{1}{2}} c, d.a. #}

C: FIRST(DaB) = { d.a} FIRST(ca) = {c}

D: $FIRST(E) = \{E\}$ $FIRST(dD) = \{d\}$ $FOLLOW(D) = \{b, a, c, d, \#\}$ $FIRST(dD) \cap FOLLOW(D) = \{d\} \neq \emptyset$

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该文法不是山(1)文法.

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2. (1) < program>: FIRST (begin < StMt>end) = fbegin f < StMt>: <math>FIRST (d: < StMt>) = fd fIRST (S<tails) = fs < tail>: <math>fIRST (S: fIRST) = fs fIRST (S: fIRST) = fs fIRST(S: fIRST) = fs follow (S: first) = fs first f

begin end
cprogram>
begin<stmt>end < semt>=d;<semt> <stmt>>s<tail> < Stmt> <tail>> € <tail>> iscail> 112021999

余留输入串 分析核 所用产生大 cprogram> -> begind ; send # # < program> begin<semwend begin disend# #end<stmt>begin # end<stmt> d; send # <stmt> >d;<stmt> # endsstmt); d d; send # # end<stmt>; ; Send # <Stmt> -> s<tail> # end <Stmt> Send# # end<tail>5 s end# P++ <tail> → E # end <tail> end# # end P++ end# 分本个成功 #

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3. 11) 不是. 因为 A > aA | a 存在左公因子. 改写: S > A b | B a A > a A' A' > A | を B > a (2) 不是. 因为 M > M a H | H 存在左递り. H > b(M) (M) | b 存在左公因子

改旨: $M \rightarrow HM'$ $M' \rightarrow \alpha HM' | \epsilon H \rightarrow b H' | (M)$ $H' \rightarrow (M) | \epsilon$

(3) 不是,因为 B→ Db| D存在左公园子. 改多: S→AB A→ Ba/E B→ DB' B'→ b/E D→d/E

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- (4) FIRST(baB)={b} FOLLOW(A)={b,#}
 FIRST(baB) ハ FOLLOW(A) # ゆ
 :、不足LL(い文法.

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