**CS 330 HW3 – CFG and PDA \_\_\_\_\_\_\_\_Key\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Name

This assignment is due Thursday **(2/15) at 10 PM.** Complete your work in word file, save as pdf and submit your softcopy on Moodle. The assignment is worth **100 points** and will be graded based on both effort and correctness. Late submission will be accepted until 10 PM Sunday (2/18). Standard late penalty applies.

Part I. Free Points - Consider the following CFG for Expression:

E🡪 E \* E | E / E | //

E + E | E – E |

E ^ E | // ^ represents exponent

(E) |

V

V 🡪a..z

Where *E*, V are non-terminals with E being the start symbol, and *a* through *z* are terminals.

This is grammar is ambiguous in two aspects:

1. Undefined operator precedence (\* vs + vs ^, etc.)
2. Undefined associativity (left vs right)

Draw two (2) parse trees for the same sentence of your choice to show that the grammar is indeed ambiguous. (6 points)

Note:

* You can draw for any sentence but must be for the **same sentence**. Ex., a-b+c
* Must use the actual symbols (T or N) given in the grammar

E

E ***-*** E

E E

V (a) E + E

V (b) V (c)

E

E ***+*** E

E V (c)

E - E

V (a ) V (b)

Rewrite the Expression grammar so that it is unambiguous with (a) precedence order of () over ^ over \* and / over + and -, (b) left associative for +, -, \*, /, (d) right associative for ^. Give the completed new grammar in the space below. (14 points)

**Key:**

* **+|- rules precede \*|/ rules which precede ^ rule which precede ( )**
* **+, -, \*, / rules are all left recursive as they are left associative ,**
* **^ rule is right recursive and it’s right associative**

**E -> E+T | E-T | T // E (+|-) T | T**

**T -> T\*F | T/F | F**

**F -> B^F | B**

**B -> (E) | V  
V -> a..z**

Is this LL(1)? NO, all these rules are left-ambiguous  
How do we make this into LL(1)?

See page 40 of PLP2 notes

E -> T TT

TT -> (+|-) T TT | ε

Also note that we don’t need to change the ^ and () rules as they are already LL(1)

Part II. CT Review - The following problems are from CT book, on pages 154-156. points. Do any 3 of the 4. (3X13=39 points)

1. CT 2.3

R → XRX | S

S → aT b | bT a

T → XTX | X | ε

X → a | b

**answer from page 160**

**(a)** R,X, S, T; **(b)** a, b; **(c)** R; **(d)** Three strings in L(G) are ab, ba, and aab;

**(e)** Three strings not in L(G) are a, b, and ε; **(f)** False; **(g)** True; **(h)** False;

**(i)** True; **(j)** True; **(k)** False; **(l)** True; **(m)** True; **(n)** False; **(o)** L(G) consists

of all strings over a and b that are not palindromes.

Note that for questions (f) – (n),

**=> indicates derivation of one-step,**

**=>\* indicates derivation of 0 or more steps.**

**h (T => T) is false because there is no rule that allow you to derive T from T directly,**

**I (T =>\* T) is true because =>\* allows for 0 step derivation.**

**What language is defined with this CFG?**

**Non-Palindrome**

1. CT 2.6 c

Write CFG for {w#x | wR is a substring of x}

S -> TX // this allows extra symbols after wR

T -> 0T0 | 1T1 | #X // palindrome with some extra symbols after #

X -> 1X | 0X | ε // X is ∑\*

1. CT 2.10

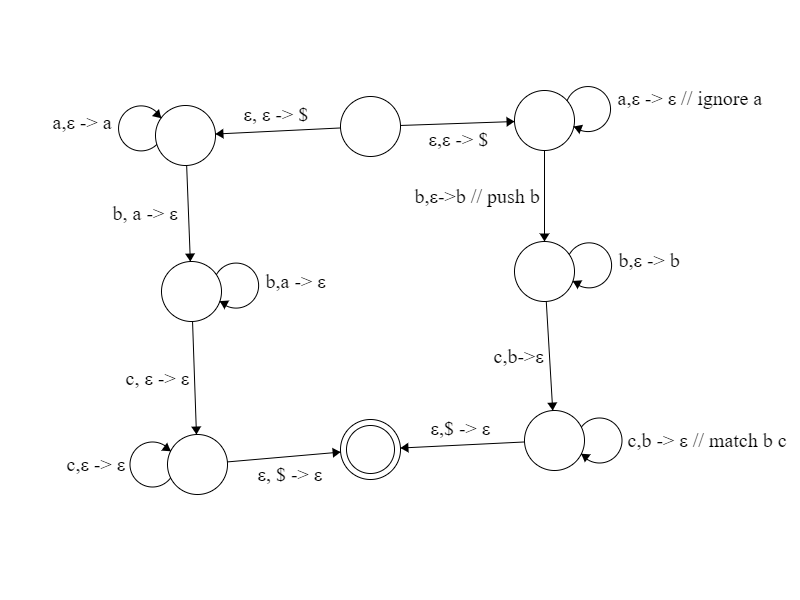
**A = {aibjck | i, j, k>0 and i==j or j==k}**

**General idea: extend from the PDA for 0n1n by creating a PDA with 2 accept paths, one ignorea a and match b and c, the other match a and b, and ignore c.**

**Is this L ambiguous?**

**There are 2 tree for words of the form akbkck**

**The actual PDA:**



1. CT 2.12

R -> XRX | S //   
S -> aTb | bTa   
T -> XTX | X | ε // same as T -> XT | ε, i.e., ∑\*  
X -> a | b

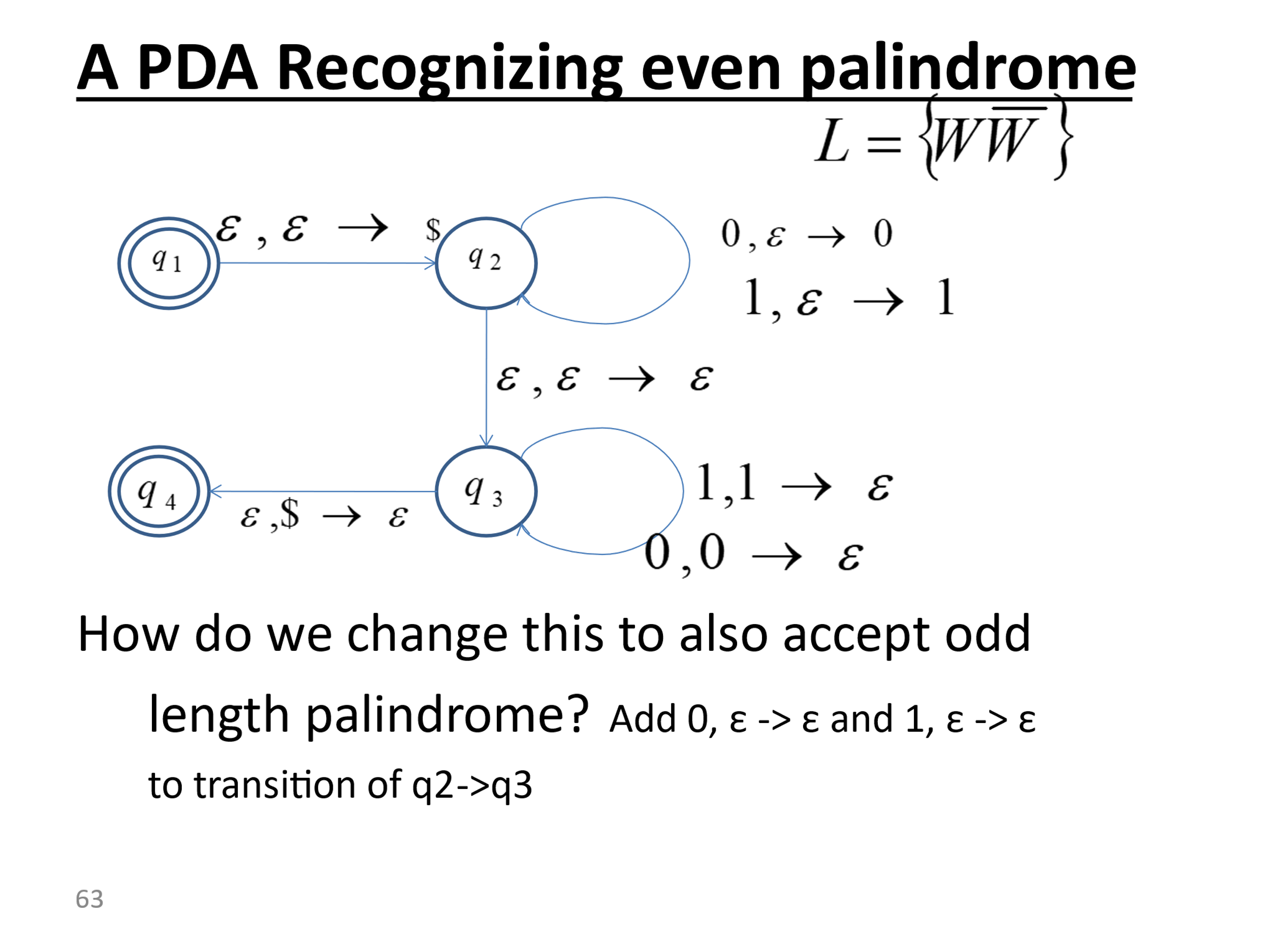
![A diagram of a mathematical equation

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEASABIAAD/4TMwRXhpZgAATU0AKgAAAAgADAALAAIAAAAmAAAIqgEPAAIAAAAGAAAI0AEQAAIAAAAJAAAI1gESAAMAAAABAAEAAAEaAAUAAAABAAAI4AEbAAUAAAABAAAI6AEoAAMAAAABAAIAAAExAAIAAAAmAAAI8AEyAAIAAAAUAAAJFodpAAQAAAABAAAJKoglAAQAAAABAAAYeuocAAcAAAgMAAAAngAAGXYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAQXBwbGUAaVBob25lIFgAAAAAAEgAAAABAAAASAAAAAFXaW5kb3dzIFBob3RvIEVkaXRvciAxMC4wLjEwMDExLjE2Mzg0ADIwMjA6MTA6MDcgMTA6MjU6MzAAACWCmgAFAAAAAQAAEviCnQAFAAAAAQAAEwCIIgADAAAAAQACAACIJwADAAAAAQAoAACQAAAHAAAABDAyMzGQAwACAAAAFAAAEwiQBAACAAAAFAAAExyQEAACAAAABwAAEzCQEQACAAAABwAAEziQEgACAAAABwAAE0CRAQAHAAAABAECAwCSAQAKAAAAAQAAE0iSAgAFAAAAAQAAE1CSAwAKAAAAAQAAE1iSBAAKAAAAAQAAE2CSBwADAAAAAQAFAACSCQADAAAAAQAYAACSCgAFAAAAAQAAE2iSFAADAAAABAAAE3CSfAAHAAAEuAAAE3iSkQACAAAABDkzMgCSkgACAAAABDkzMgCgAAAHAAAABDAxMDCgAQADAAAAAQABAACgAgAEAAAAAQAAB+CgAwAEAAAAAQAABeiiFwADAAAAAQACAACjAQAHAAAAAQEAAACkAgADAAAAAQAAAACkAwADAAAAAQAAAACkBQADAAAAAQAcAACkBgADAAAAAQAAAACkMgAFAAAABAAAGDCkMwACAAAABgAAGFCkNAACAAAAJAAAGFbqHAAHAAAIDAAACuzqHQAJAAAAAQAAEI4AAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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RolJicoKSo0NTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD7liBLDk/LUySeZlSOTxRCAKNu3kCuHodiF8sRxle3eolk8oKu7ClutWHz5fPU1W8kTKUbjHINMZKH3fX1pMDmhV2Ko7qKdIytjbQBG2ADjk1ExP8AF+FLtZSV70x8+YDUmbH7227QKhmiztJ//VUuMnFDLz0NIQ6GNWyXboKh37s+3Ap+xjkDNRyfuVII60AN3bW5qORyrFuuacqnHIyaVYztTdxxQNAMMuVz6UhwN6+1SqoXgDp020xYisjEng0Gg1VG3j0xTGTaysenarG3bx0qO4z5a8UDKw+9TG9DUjYVQO+etInzyHjtkUFEkBCE8ZHaopZNzEZ4p7R+Vjt6c1GVG7igBhbaM1FJ83OMj1qZl+UVHICny96lkjFYLuPfFRQgMm7oWqzHDwSRk4qPyyi7entSAZtLsBjINSXLrHhV4GKaPl5/ClkUMwPUehpDuRws6rubkHpmnyYOMnvinyDa3AwvpTEUOcn+E1IywFC5P4c1XaMFSMe5zUrNuyPxpjLtYc9qYEK243cjj0qIBl429CattzntSKUHGMmgdyqYzn7vApob3q5Mo8lsDOTWdJJ5bbc5NAxxjzjmljXZKinkMetJD94kcg/pUgjEjAE4w3FIYz/VsxXnHFTRrgDPOajCN5zjOMGptu5lx1oAkXG7A6U5huWk+6xA5zTxHhTnrQJkNuPL8wn7zVNyuB7c01YyVGeMjrUh+U/hTJFWpCu6mQruLfpUwwwx3oAqSLj8aib7rLwTVpc8k4J6VUb77dyaCkVmj/eAZ4xzTdxXNT3ChNhIPzdajwQenBPWoGR4K81PbqrqQelI0I8vJzmprXLDpjAxVWsSTKuOO1P+8vuPSjAXoaUZ3AAZ4qkIUoPMZeDg8YNTw5VTnuajhjAyScH0qYUALtLZx0FOjw3PenDOCBj3pV+X6VIDXyaVSW96Sb5unGKNu1AT17UwB1Vl29SOtG1Rx+lMLbRn1qRVDdaaJYsyMsatH17g1ChaR238VOijoc4pfLHJpiGqpXFI+V7Zp+/5qbuLZ5xQMgdduQMn1psfDE46jB/OnyKVxznNJ0Qt2HWgoGzt6VHIMqvb6U7cGzg9aQZXAqUASRljtHGOSasWqqN6NuJHIY1Hgrk/nU1soyeeKoCyvt0pGYK3Bzmhs+WRSx4eMjHzBuvtigVwkVs/uuW7E9Kl2nnPU9h0pFUhRzz9KlVc81SEM8snpxTmIDdKfUbsB1NMjlGbWzkfrT/L+Uk9RSUp+ZcetBRBIu77p61IOc+hpu3DBc4OKcuWY889xQAuwcgH8KiwWUfyqxsxwabIxLKMflQRLcjhj/eFmA/E0z5pW4Hyjmp3U4IHpUcaeWrZoJI93zA0qk7ufXNKylV3BeMflSLIDIRjHFBcdgmZu/HOagb7uSOe1WcluoqvM2Ng7VLKG8Akjqe1DELlu3SlUfMTigxEqcketAEEcY3FzyfWpRT44fl96csZ3FSOKAI8quR360pxwM80skYP8qhtiZJCccDigCfjjNNkweppJs7gF6YFVpp3jmVFj3HvQBYUnODUka7ufSljj28+vanrGBn1qgImUyBdvvUuAqhcZOKQL82PbmpFGNpoAZtO5scUoXaOmMVY28Hiosc460ANXOD+dPh6Z9ajYHoOlPhU856dqAJG/SoQPmz2qUru4pCo24/GgCCRd7E8Ae1JkiMlh3xU0a/Kcj5qGGVI74oApNnpTVj5JAyO1WGAZVPcdabDCzMwO0jOc9MVLAjOOhOf6U1mzJzwMVJIpa4Cr028/WmbcctQAgA3DsPerC4ce9RKBtBNPXrjpTQAzCTch6dKqyRRqAqHcc96s+WfmJ6VVZQ0mBwfemBKq7c4H50NMIyRntjimrG4ZjkYxihlAkLdzjigYWq/M+ANtWg2FxkfSqUJAmbnn2NTRtIzdPlz3pDsX7VS3OPlPFWdo6AYH1qtbECPnP0qYnuORVGbF43HBqNpAsgXp35p23FV2zJIx644pEDpmEinB5zUezG057c08RtjNKVG75jhaAISxzRnaQRTd2XJwMmnKvGDnHagu452GBgYNIcFcfxe1DHbtBz7ZpBQUV+dxzUnuBzT2XcvqQc03cNgPYUAVZsDgckdaZCw4PfNWTsYbkHU4NRRoFkORkUANVdrOc5yeBS7nYAAY9amUbVbnOe1CQhYwSeaAImUfaPRmqUrtfZ/EaXykLBwMEdKawH2gOaAHPhV6c9KlhwVC45NR7Q3P40/7q8UCYKoWUrx706bbhSp5pix7mJJ5pwj2nJI20GYfeAFSKVaPlcHvSLgrxxQzDtQXEP4cCo9vPJxUifd9qY3HPWgoZzuxt465zT9+0EUhUnJ9+lG3pz+FADW+bgDA60gTg84NTRKu4E8Cl8kNM+fu0AMKB49z84GBUJAZsHsanOWGByBUHllW653UARSA+Yx9aKsLCWXJooAuW/cHnnNTMvyGorUjnHepm+7VgNlkG0HtSR4K8cZqP72AaX+Lg0ASOAzDHbg1FJH5chKfd701mZZMg1K1wuORk0AQn5ufWo2b5j9aeYx5bPnpSAfLQIIwepp+DnmliUMDnrSTNtk/CkMfG3l7yeTVa4bzmJxxipdzEnjil8v923QGgCKOPaoY8jFPYKykD/9VKP9SqnuKjLeWcfhUkdRm7GMDP40qtnHGDTcjnPalyKCxAAGHrTZl3L+NSN933703dgUAU5Pmk56+3SiHHmLj72aSbDSMy/dyKW1+afb0xQUSzL5nXrnimqm0AN1qTduH+fWnxxhuvPc0CKlx8qjtUS4b39c1elhBVgBk9qijjJYgjA6mgYxQePT3qGSQSMTjFXZsbecA9qpMvy8DntUAQ+WSy+lO3fvMdqeqlcZprAcikwQ2Zj5ZCnBzyaSNSYQc5oxuUj1p1vGq7lDbqBjUU+Zuz9akuGK+Xx944/KlwI4ix6U052+tICNzuzzjnFAUiP3FGwNyOo7U+RSIyRyfSgCNsvHgcVSuIt07Ae3NXEO7vio5lJxxz3pDIFU7wAcVOo+Zl6Ypm3c4OM9uKmjYKxzRYobHhk/HrTTIytzgVayFjIHpnpUXltI2MZzx0oFclhUyNnvUkn3aYsg8w7fug4+tPwHUDqaZIoX5SSeD0puOcU/aQoo8sjk9e9AAnynPSpkxn/e6VAPmz6U7cMD0oATd8zADpVMZWU571bZl45welR7fMbAGKBleVtxCt0FRuwZRg85qS4TB6ZI60yKMqqsfrigZNt3W5UjJqSKMRpxxmkX17U/hhQSKBnFOwU5xkU37u0/yqZF3DBPeqGPh+6GPP8ASnNkkkfjTVz34py538enNSIkh+5zwpOc0rNyB+WKaFJyPypGzvXHrQA8/Mc03bls559O1PYjkDoKauce1ACY45p68g4+UdcU00+M7mI/CqIFVgq89KXzO340ph3DGOvFQ42sR+FACtxkilVQcfnTSDt6U5U3KO9ADZo2I46CosqYWXHLCrWT93PaqhIWYegGKCkL5O2NAGzjOaZ8iAsDk5xipz91icYxUVsgHJ5PWgZKqtznr3qW3bgjGMHGagaT/SAq8dyDzViNvMjYAYPWgkdy7DJ+XvVjy9uD/Kq8WQzbh8v8NXF6DNNCF9PSlH3sdqNp6AUvOTVAKyjGe9RyIGx6dafuJFMciNSWPXigL2Db82MUFcLzzUcOWbcT7YqSRwMAdSaCOYb1xT1wuGPU8Uz7vB606TDIMHkGgVxY/mY5pJPlHHWmbx0HWnrGecnNA0NXoec+tJ5fXPBPenxrtOT9KVvvYxmgpogkyu1RyMcmoeVY7Rk9qsSL8wNHI5AHtQNEMbfKGPXPSmzR+ZtOOh6U/pjP0p3TAoAZtCqKXb+dIzfMg6YpzNuJ5oAMhaTaeec96ey7sfrSMzBfl4zQAxsNgAHNMhULuDcZNOj2q25gT1xTYy0m5mUA5oAJFDY6g98UBduWAGOhYU7caVeg9G5xQAidieamI6mmUuflNADOmc1KuOnb1psahsk9fSpVAJA6UACjHGeKYkflsxzkMePap2jxj1pm32oAZ5Y6nOKlXAXimh8rtxxSrjBOfwoAbj2pD6U9e2e9MYnzCtACcs2O9JSxg55ok7YoAIo07j5aiizywBBbrUu3K4zilX73tQAixc7j1+lVJIwGbkeuKvbuM1Cyr5gJHHegZACfLBIwOlOA39BxQVMyZzt5zinKdrH170CEZF+71FVXjZhn7tXPY1DM3Py9fSkBGqhFOTlqqSMdzDv2q3I26RhwEyMVRdtjsDyaQx1sx8xgAc+taEKmZVA4I6ms63bbxnBJ5rYhXyocgZz2poY4KFXGaRnLKATjFL1Hv6UzB9KZlLclZumDx601eG4qKV33RjHGKmVc47UAnYewK8HgVFMucgHOKe0gaTnkjildc4I/GgOYrxoepHWp4m4xjvQvFOjUFjjrTZYjRCRg2PmxtH0qsyFM46A4NWip5xUfVfWkBDEdxbPpSSRhlwOBUq45PQmjYWQleB3zQJsgMKwKOfmbn2qOVTuUKRnPN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PQYqxD99WH40UVQkWHwpB/Cq+MsxByelFFBQ8oQFB+lNZuCO2cUUUATW6eYFLDjvzUlwnzbxxu+X8KKKBEKEbsk4xTlcLk/jRRQMVJyVJb8qgmY7c0UUB1Idx2nnikhUn5T19aKKnqTYWaQtIoAwFX8zStvdE6YHOaKKoEh0MhLMSO1OVflY0UUFjfL3D3qs0jK2wHOzk0UUjJlhZjIhZucjAxTVyuO5oooGwkIbIOMgcGqvkmOZFA+91JooqJbgPuBtjlA+fadtUd2R6HNFFZs0jsRSDapNQPJu5xyaKKlloZ69h70LIMjvnrRRSAuxkSAVbhbagA/E0UUDHs2VOanjO5FyOKKKCJbk8bOJF2nirsCkyZB6DFFFVEi5ZhgVeecbRx71aRiVXtjrRRVMCzuHCg9Keynbkcg0UVRJVk4YjoMVG8oVlA5J5oooATlkOPvCk5VXPde34UUVRI9l7gcdTx61BHJmQ9KKKQEhUNwRkZpEjCOB2+tFFMBT94N3x/OoJFO445IGRRRVICSBQu1hyetVJbfEKBW+6ST9DiiimBVZR52xeNxGKjmXaoK9MAfjn/P5UUUkBBuLfL0HHFRz/u9mf413D86KKYFVmOVc8L0OafJubB6EDIBoooAkXG5iBjAz9eM1Wm5hb8wKKKClsRW7YwSce1PMgfGBk5+9RRQSPyUmxuz3zT4cK6luBnJP40UUARCR2UZPJGRUayN8ynnbwM9u1FFR1AVs4Y/WgEtHGvcdTRRTYDtg2lR17GqMzeVMBjkDAY0UUAKDn7vPep9oVcDjjn+tFFSgEVvm9sHFMBbgd8daKKRQ7Pl7So5WkVW3KxAGW6envRRSAJM+YV6nGfY01csq+4Uk+hxzRRQBKsO2FwAPMPU+vpSQRsqhCvI460UUDFaNvODDgHgqKv2bbflPBU5OaKK1FI1AwVflAPA4H1/+vV6GM5Az+FFFUjItQxhFz3OMirCyDcAOgNFFMBkxHz4z161lPJ13ZoooYFa4+YB8YwQP1pq/fBIwByPzoorIB8sw85yp3BtuG9OOR+dMnYSSYXOMbf/AK9FFADGYKyp2Zd4+h//AFVDkzXB2pgZCfhgc0UVZYyaN4fN2nHmYJ9sDtTbZPLVUYZ2rsH0AoooAnt1NqqcY3Zx9SRx+tae0pIvPQZOD+lFFNEsTgRjHO0YpOGY7RkGiimIa3G3nDdKSP5WHGctRRR1KJJJPKnkXqi4xUS5ZR6tzRRS6jHbd23JHSrHnFoY0xgrRRTAbN1Vv7x4/Ko8E7v4ix9faiigQ23TY5jBJwcDNWm+fPH1oooAdHgqSe3pTJvmUZ9aKKBksWYkXHJzye1PkTzDx+tFFBJYiUx4HYDpVgruAXJx6UUUCGbdufQGmD749G6UUUAOkBUFD060nWEgYzu3fhRRQBSut0nkrzzz0pIVDM4zgKOKKKAJOJFT2NLD8sY/z6UUUAS7hxUEmWYfTP60UUATK3yZI4pQeozgHkjNFFADdyspUUj/AC/d460UUAAUt9V4qSParNjhjzRRQBIyHcD70k0isMDOMc/WiigZH5fyFjyqio0bcR29/SiigQkwO5Soz61BcrumGTlF5H40UUupYcjBbg9ql3bVDDvRRTAnzuAPQMM4qJ14OelFFBBegYeWp7Yq5G23GD+FFFUgNzTyGhJJHJ4ooorQg//Z)

Part III. Give CFGs and draw PDA for each of the following languages, on alphabet Σ = {0,1} (20X2=40 points)

1. Palindrome {w | w = wR }

R -> 0R0 | 1R1 | ε



1. {w | w = 0n12n}

R -> 0R11 | ε

A black background with a black square

Description automatically generated with medium confidence

Part III.