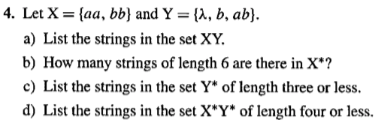


|  |  |
| --- | --- |
| **Profesor:** Alejandro De Gante | **Fecha:** 26/Marzo/21 |
| **Nombres:**  Lizbeth Maribel Melendez Delgado  Gerardo Novelo De Anda | **Matrículas:**  A01232559  A01638691 |

Actividad 3.1

Practicando los lenguajes regulares

****

1. XY = {aa, bb, aab, bbb, aaab, bbab}
2. X\* = {aaaaaa, aaaabb, aabbaa, aabbbb, bbbbbb, bbbbaa, bbaabb, bbaaaaaa}

8 strings of length 6

1. Y\* = {λ, b, ab, bb, bbb, bab, abb}
2. X\* = {aa, bb, aaaa, aabb, bbbb, bbaa}

Y\* = {λ, b, bb, bbb, bbbb, ab, abab, bab, abb, babb, abbb, bbab}

X\*Y\* = { aa, bb, aaaa, aabb, bbbb, bbaa, λ, b, bb, bbb, bbbb, ab, abab, bab, abb, babb, abbb, bbab}

****

{w | w ⇒ a\*b\*c\*}

****

{ w | w ⇒ aa\*bb\*cc\*} o { w | w ⇒ (aa\* b\* c\*) + (a\* bb\* c\*) + (a\* b\* cc\*) }

****

{ w | w ⇒ (a + b + c) (a + b + c) (a + b + c) }

{aaa, bbb, ccc, aab, aac, aba, abb, abc, aca, acb, acc, baa, bab, bac, bba, bbc, bca, beb, bcc, caa, cab, cac, cba, ebb, ebe, cca, ccb}

****

{ w | w ⇒ a + b + c + (a + b + c) (a + b + c) }

= {a, b, c, aa, bb, cc, ab, ac, ba, bc, ca, cb}

****

{ w | w => (a + b + c) (a + b + c) (a + b + c) (a + b + c) (a + b +c)\*}

****

{w | w => (a + b)\* (ab) (a+b)\*}