

Índice de mantenibilidad

A continuación, se presenta evidencia del cálculo del índice de mantenibilidad de toda la solución computacional del proyecto.

Maintainability Index

Calculated Metrics Value: 0,0
Regular Range: [0,0..19,0]

Metrics Level: Project Level
Metrics Set: Maintainability Index

Maintainability Index

The Maintainability Index first appeared in 1992 when it was proposed by Paul Oman and Jack Hagemeister at the International Conference on Software Maintenance with the goal of establishing automated software development metrics to guide a software related decision making. The Maintainability Index tries to give a holistic view of the relative maintenance burden for different sections of a project by blending together a series of different metrics.

Here we use a more modern adaptation of the original formula proposed in 2011 by Microsoft:

$$\text{Maintainability Index} = \text{MAX}(0, (171 - 5.2 * \ln(\text{Halstead Volume}) - 0.23 * (\text{Cyclomatic Complexity}) - 16.2 * \ln(\text{Lines of Code})) * 100 / 171)$$

Threshold Values: 0-9 = Good; 10-19 = Acceptable; 20-100 = Bad

D. Coleman, D. Ash, B. Lowther, and P. Oman, "Using metrics to evaluate software system maintainability," Computer, vol. 27, no. 8, pp. 44-49, 1994.

Este fue calculado con MetricsTree en IntelliJ IDE, como se ve en la imagen. El IDE utilizado da el resultado de manera que 0-9 = Bueno/10-19=aceptable/20-100=Malo, teniendo esto en cuenta el índice de mantenibilidad del proyecto es bueno, con un valor de 0,0.