

Support of $\text{Hom}_R(M, N)$ by $\text{Ext}_R(M, N)$ and $\text{Tor}_R(M, N)$

Homomorphisms

August 1981

1. Introduction

Let R be a ring, M and N be R -modules. We consider the following problem:

2. Problem

Let

$$M = \begin{pmatrix} R & R \\ 0 & R \end{pmatrix}$$

$$N = \begin{pmatrix} R & R \\ 0 & R \end{pmatrix}$$

$$M = \begin{pmatrix} R & R \\ 0 & R \end{pmatrix}$$

Then $\text{Hom}_R(M, N)$ is isomorphic to the direct sum of the two copies of $\text{Hom}_R(R, R)$ and $\text{Hom}_R(R, R)$ is isomorphic to R . Therefore $\text{Hom}_R(M, N)$ is isomorphic to $R \oplus R \oplus R$.

Now $\text{Ext}_R(M, N)$ is isomorphic to the direct sum of the two copies of $\text{Ext}_R(R, R)$ and $\text{Ext}_R(R, R)$ is isomorphic to R . Therefore $\text{Ext}_R(M, N)$ is isomorphic to $R \oplus R \oplus R$.

$$M = \begin{pmatrix} R & R \\ 0 & R \end{pmatrix}$$

$$N = \begin{pmatrix} R & R \\ 0 & R \end{pmatrix}$$

$$M = \begin{pmatrix} R & R \\ 0 & R \end{pmatrix}$$

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The above result shows that $\text{Hom}_R(M, N)$ is isomorphic to $R \oplus R \oplus R$ and $\text{Ext}_R(M, N)$ is isomorphic to $R \oplus R \oplus R$. Therefore $\text{Hom}_R(M, N)$ and $\text{Ext}_R(M, N)$ are isomorphic to each other.

Solution Manual For Algorithm Papadimitriou

Stephen P. Boyd, Lieven Vandenberghe



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