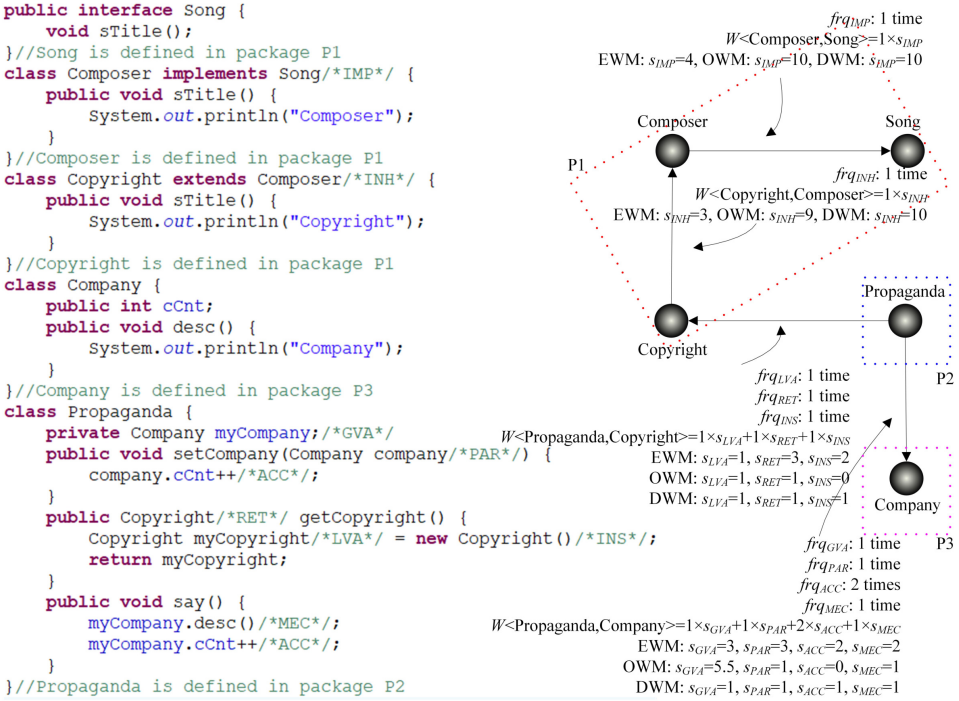

Fig. 6. A simple Java code snippet (the left part) and its corresponding $\mathrm{CSN}_{\mathrm{WD}}$ (the right part). The text beside each link denotes the coupling types (i.e., *CS*) that the link represents, the frq_c of each coupling c, the formula to compute the weight associated with each link, and the s_c of each coupling c.

APPENDIX A
A SIMPLE EXAMPLE

Figure 6 gives a simple example to illustrate the idea to build the $\mathrm{CSN}_{\mathrm{WD}}$ for a Java code snippet. There is one interface (viz. Song) and four classes (viz. Composer, Copyright, Propaganda, and Company) defined in the Java code snippet, and thus we can create five nodes in the $\mathrm{CSN}_{\mathrm{WD}}$. Besides, the interface and classes are coupled through ten couplings that have been marked explicitly using comments "/**/" in the code snippet. For example, there exist five couplings from Propaganda class to Company class, i.e., one instance of *GVA* coupling (cf. `private Company myCompany; /*GVA*/`), one instance of *PAR* coupling (cf. `public void setCompany(Company company/*PAR*/)`), two instances of *ACC* couplings (cf. `company. cCnt++/*ACC*/;` and `myCompany.cCnt++/*ACC*/;`), and one instance of *MEC* coupling (cf. `myCompany.desc()/*MEC*/;`). Thus, we can create a link from the node of Propaganda class to the node of Company class. Note that though there exist five couplings, we keep only one (cf. Definition 1). Then, the weight associated with this link is computed by $w\langle Propaganda, Company\rangle = 1 \times s_{GVA} + 1 \times s_{PAR} + 2 \times s_{ACC} + 1 \times s_{MEC}$. If we use `DWM` to assign the weights, then $w\langle Propaganda, Company\rangle = 1{\times}1{+}1{\times}1{+}2{\times}1{+}1{\times}1 = 5$. Other links in the $\mathrm{CSN}_{\mathrm{WD}}$ can be similarly created.