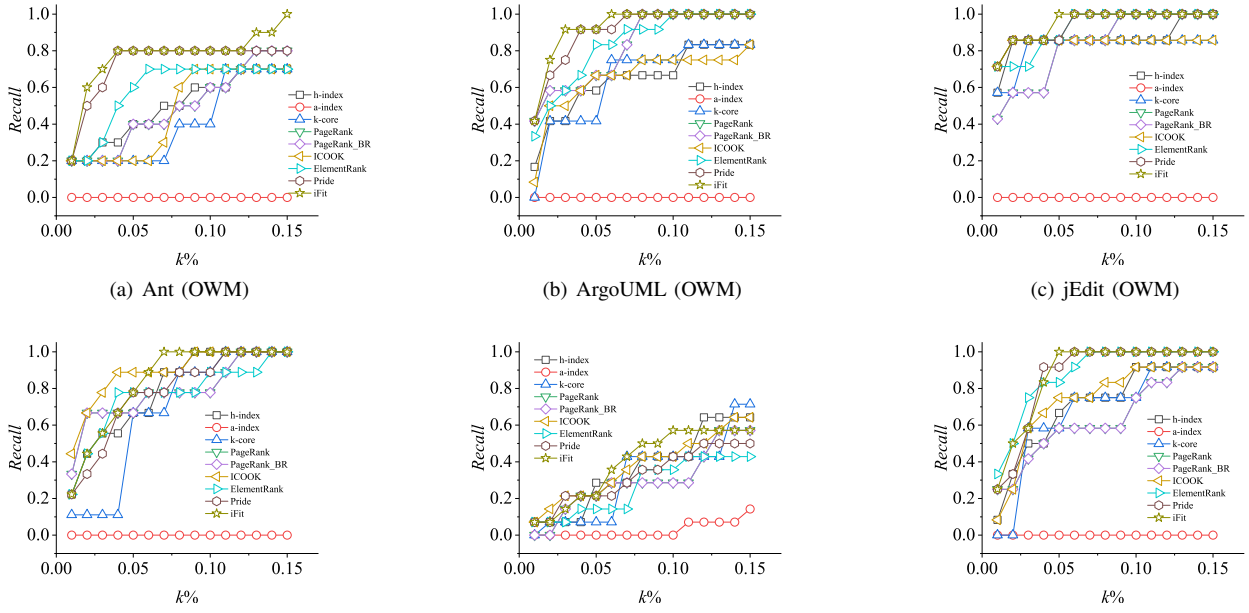


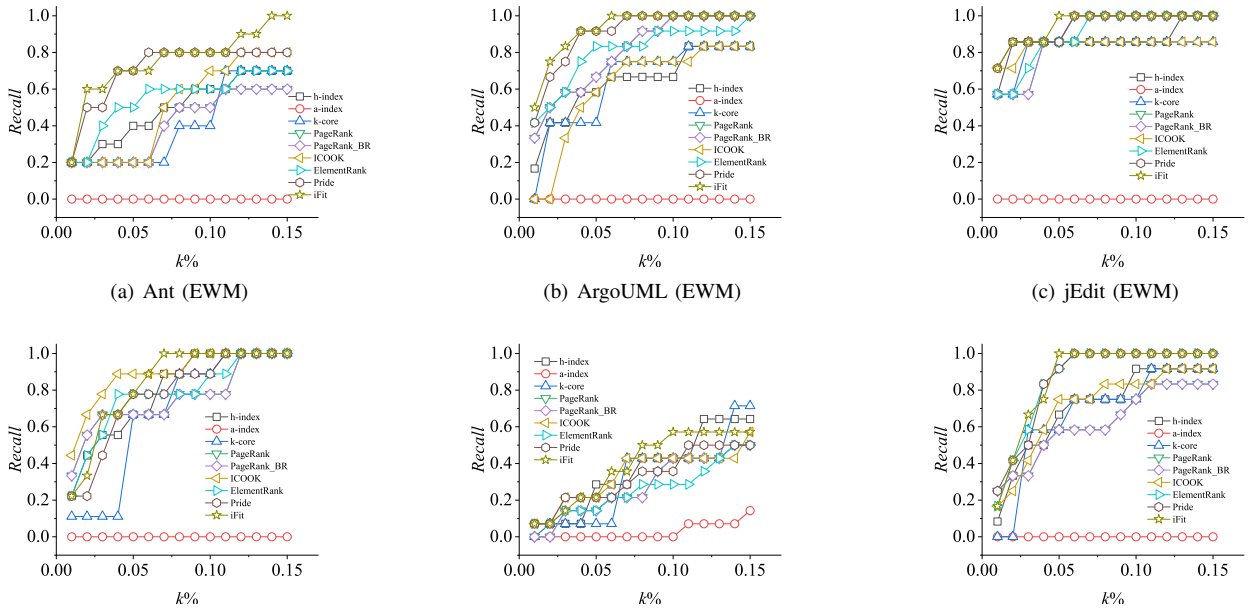
(a) Ant (OWM) (b) ArgoUML (OWM) (c) jEdit (OWM)

(d) jHotDraw (OWM) (e) jMeter (OWM) (f) wro4j (OWM)

Fig. 7. The performance comparison (i.e., *Recall*) of iFit with the baseline approaches on the whole set of subject systems; the CSN_{WD}s are built using the OWM weighting mechanism. "@$k\%$" signifies the corresponding results are obtained on the system when we investigate $k\%$ ranked classes. Interested readers can enlarge the corresponding figures for details.

APPENDIX C
RESULTS OBTAINED ON THE WHOLE SET OF SUBJECT SYSTEMS

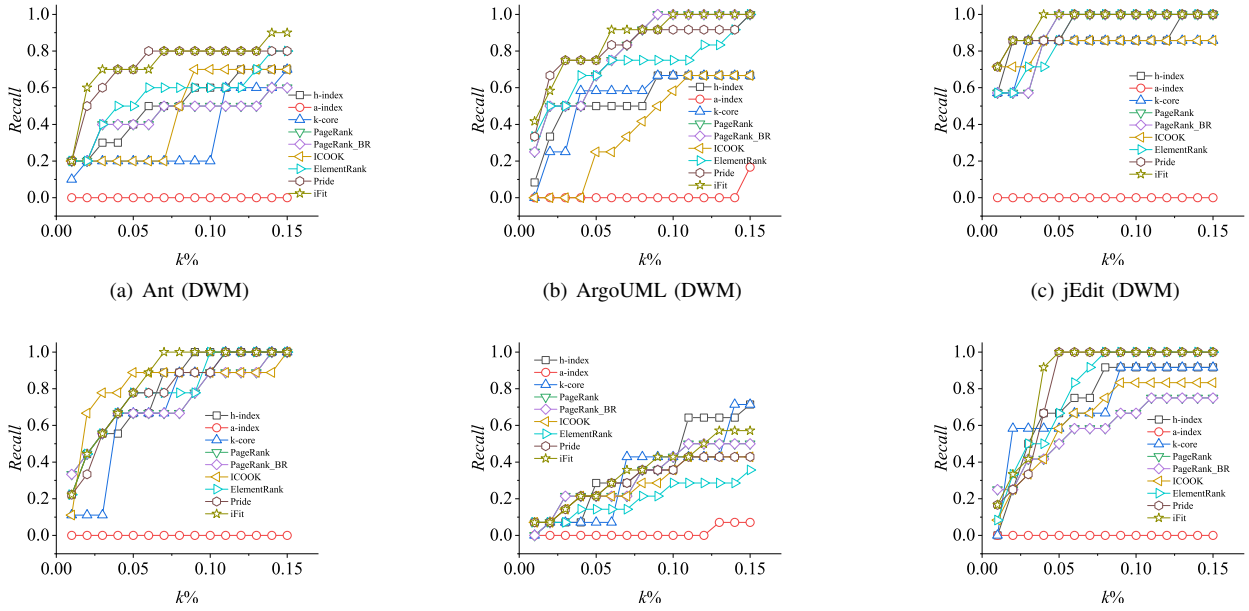
Figures 7 to 9 show the results of the nine approaches (i.e., `iFit` and the eight baseline approaches) obtained on the whole set of subject systems. For example, in Figure 7(a), we present the *Recall*@$k\%$ results of the nine approaches obtained on Ant when the weighting mechanism is OWM. We use "@$k\%$" to signify that the corresponding results are obtained on the system when we investigate the top-$k\%$ ranked classes. Note that there are six subject systems, fifteen different $k\%$ settings (i.e., 1% to 15%), and three weighting mechanisms. Thus, `iFit` is actually evaluated on 270 (i.e., $6\times15\times3$) different cases; the nine approaches will get their own 270 *Recall* results. In the experiments, we find that `iFit` performs no worse than other approaches in more than 81.48% (220/270) of the cases, with only 50 exceptions, where `iFit` is a little inferior to other approaches.



(a) Ant (EWM) (b) ArgoUML (EWM) (c) jEdit (EWM)

(d) jHotDraw (EWM) (e) jMeter (EWM) (f) wro4j (EWM)

Fig. 8. The performance comparison (i.e., *Recall*) of iFit with the baseline approaches on the whole set of subject systems; the $\mathrm{CSN}_{\mathrm{WD}}$s are built using the EWM weighting mechanism. "@$k\%$" signifies the corresponding results are obtained on the system when we investigate $k\%$ ranked classes. Interested readers can enlarge the corresponding figures for details.



(a) Ant (DWM) (b) ArgoUML (DWM) (c) jEdit (DWM)

(d) jHotDraw (DWM) (e) jMeter (DWM) (f) wro4j (DWM)

Fig. 9. The performance comparison (i.e., *Recall*) of iFit with the baseline approaches on the whole set of subject systems; the $\mathrm{CSN}_{\mathrm{WD}}$s are built using the DWM weighting mechanism. "@$k\%$" signifies the corresponding results are obtained on the system when we investigate $k\%$ ranked classes. Interested readers can enlarge the corresponding figures for details.