9. (a) $B_{P1} = \mu_0 i_1 / 2\pi r_1$ where $i_1 = 6.5$ A and $r_1 = d_1 + d_2 = 0.75$ cm + 1.5 cm = 2.25 cm, and $B_{P2} = \mu_0 i_2 / 2\pi r_2$ where $r_2 = d_2 = 1.5$ cm. From $B_{P1} = B_{P2}$ we get

$$i_2 = i_1 \left(\frac{r_2}{r_1}\right) = (6.5 \,\mathrm{A}) \left(\frac{1.5 \,\mathrm{cm}}{2.25 \,\mathrm{cm}}\right) = 4.3 \,\mathrm{A}.$$

(b) Using the right-hand rule, we see that the current i_2 carried by wire 2 must be out of the page.