Iz postavke problema vidi se da se radi o permutacijama totalnog nereda (deranžmanima).. Njihov broj D(n) može se izračunati na nekoliko načina (u konkretnom slučaju je $n = 8$):

Način 1: Primjenom rekurzivne formule D(n) = $(n-1)\,(\mathrm{D}(n-1)+\mathrm{D}(n-2))$, D(1) = 0, D(2) = 1:

$$\mathrm{D}(3) = 2\,(\mathrm{D}(2)+\mathrm{D}(1)) = 2$$
$$\mathrm{D}(4) = 3\,(\mathrm{D}(3)+\mathrm{D}(2)) = 9$$
$$\mathrm{D}(5) = 4\,(\mathrm{D}(4)+\mathrm{D}(3)) = 44$$
$$\mathrm{D}(6) = 5\,(\mathrm{D}(5)+\mathrm{D}(4)) = 265$$
$$\mathrm{D}(7) = 6\,(\mathrm{D}(6)+\mathrm{D}(5)) = 1854$$
$$\mathrm{D}(8) = 7\,(\mathrm{D}(7)+\mathrm{D}(6)) = 14833$$

Način 2: Primjenom rekurzivne formule D(n) = n D(n–1) + $(-1)^n$, D(1) = 0:

$$\mathrm{D}(2) = 2\ \mathrm{D}(1) + 1 = 1$$
$$\mathrm{D}(3) = 3\ \mathrm{D}(2) - 1 = 2$$
$$\mathrm{D}(4) = 4\ \mathrm{D}(2) + 1 = 9$$
$$\mathrm{D}(5) = 5\ \mathrm{D}(2) - 1 = 44$$
$$\mathrm{D}(6) = 6\ \mathrm{D}(2) + 1 = 265$$
$$\mathrm{D}(7) = 7\ \mathrm{D}(2) - 1 = 1854$$
$$\mathrm{D}(8) = 8\ \mathrm{D}(2) + 1 = 14833$$

Način 3: Primjenom eksplicitne formule D(n) = $n!\displaystyle\sum_{k=0}^{n}\frac{(-1)^k}{k!}$ sa sumacijom:

$$\mathrm{D}(8) = 8!\,(\frac{1}{0!}-\frac{1}{1!}+\frac{1}{2!}-\frac{1}{3!}+\frac{1}{4!}-\frac{1}{5!}+\frac{1}{6!}-\frac{1}{7!}+\frac{1}{8!}) = \frac{8!}{2!}-\frac{8!}{3!}+\frac{8!}{4!}-\frac{8!}{5!}+\frac{8!}{6!}-\frac{8!}{7!}+\frac{8!}{8!} =$$
$$= 3\cdot4\cdot5\cdot6\cdot7\cdot8 - 4\cdot5\cdot6\cdot7\cdot8 + 5\cdot6\cdot7\cdot8 - 6\cdot7\cdot8 + 7\cdot8 - 8 + 1 =$$
$$= 20160 - 6720 + 1680 - 336 + 56 - 8 + 1 = 14833$$

Način 4: Primjenom eksplicitne formule D(n) = $\lfloor n!/e + 1/2 \rfloor$:

$$\mathrm{D}(8) = \lfloor 8!/e + 1/2 \rfloor = \lfloor 40320/e + 1/2 \rfloor = \lfloor 14833.399 \rfloor = 14833$$