· Suppose we have 25 boys. Arbitrarily arrange them around a table.
Name from B1-B2-B3
comes use have a set of girls. To satisfy neighborhood condition,
pink two arbitrary girls from the set, name them G1, G12 and place them
Name from $b_1-b_2-b_3-\ldots$ b_2-b_1 . Suppose we have a set of girls. To satisfy neighborhood condition, Pick two arbitrary girls from the set, name them $b_1, b_1 a$ and place them the following manner: b_1, b_1, b_2, b_2 The following manner: b_1, b_1, b_2, b_2 The following manner: b_1, b_1, b_2, b_2 The following manner: b_1, b_2, b_3, b_4 (Neighborhood)
the following mainer. [0,00022]. Pick a girl, name it Ag, place it like this: B. B. B. B. B. Crabal.
. Fich a girl, name of cist to place it like this: Ba Gia Gia Bal.
Again pick a girl, name it Gra, place it like this: Bg Gra Graba.
· Again poer a gora; . Again poer a gora; . Continue in this monner until we place & Brezz, Brezz like this:
Beg has still two boy neighbors in Beg and B1. Beg has still two boy neighbors in Beg and B1. Could be appetracy gipls Geg, Gree, place them in this manner:
Bes has still two boy neighbors in B24 and B1. Pick two arbitrary girls Gez, Gree, place them in this manner: Bes Gez Gez Bes B1
B25 G125 G126 B1 B25 G125 G126 B1 To satisfy neighborhood condn, we must have atleast 26 girls if we have 95 boys.
I wishborhood condr, we must have well in 20
10 satisfy (ag)
have 25 boys. Suppose we have 25 girls. Arbotrorphy arrange them around a table. None Hoom a - An - Ba - Ba Green Green - Green
· Suppose we have 20 gors · Al-Doctor and - Gros-Gr
1.12 ocill tox to magarate to
Repeating above used very wer. Grababas Bras Gras Gras Gras Grababas Bras Gras Gras Gras Gras Gras Gras Gras G
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. We can have maximum 24 boys. (Not very rigorous argument)

[Proof:] · Suppesse no student will have both neighbors as boys. We will from we either worth have 25 boys or we won't have 25 girls.