

# Dummy title


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## Abstract

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*Joan R. Public:* [funding]

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<sup>1</sup> Optional footnote, e.g. to mark corresponding author

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- `\author`, one for each author, even if two or more authors have the same affiliation.
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The `\author` macros and the `\Copyright` macro should contain full author names (especially with regard to the first name), while `\authorrunning` should contain abbreviated first names.
- `\ccsdesc` (ACM classification, see <https://www.acm.org/publications/class-2012>).
- `\keywords` (a comma-separated list of keywords).
- `\relatedversion` (if there is a related version, typically the “full version”); please make sure to provide a persistent URL, e. g., at arXiv.
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## 2 Lorem ipsum dolor sit amet

Lorem ipsum dolor sit amet, consectetur adipiscing elit [4]. Praesent convallis orci arcu, eu mollis dolor. Aliquam eleifend suscipit lacinia. Maecenas quam mi, porta ut lacinia sed, convallis ac dui. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse potenti. Donec eget odio et magna ullamcorper vehicula ut vitae libero. Maecenas lectus nulla, auctor nec varius ac, ultricies et turpis. Pellentesque id ante erat. In hac habitasse platea dictumst. Curabitur a scelerisque odio. Pellentesque elit risus, posuere quis elementum at, pellentesque ut diam. Quisque aliquam libero id mi imperdiet quis convallis turpis eleifend.

**Lemma 1** (Lorem ipsum). *Vestibulum sodales dolor et dui cursus iaculis. Nullam ullamcorper purus vel turpis lobortis eu tempus lorem semper. Proin facilisis gravida rutrum. Etiam sed sollicitudin lorem. Proin pellentesque risus at elit hendrerit pharetra. Integer at turpis varius libero rhoncus fermentum vitae vitae metus.*

**Proof.** Cras purus lorem, pulvinar et fermentum sagittis, suscipit quis magna.

□ Claim 2. content...

Proof. content... □

**Corollary 3** (Curabitur pulvinar, [2]). *Nam liber tempor cum soluta nobis eleifend option congue nihil imperdiet doming id quod mazim placerat facer possim assum. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat.*

**Proposition 4.** *This is a proposition*

Proposition 4 and Proposition 4 ...

?(list:8-6)? ■ **Listing 1** Useless code

```
for i:=maxint to 0 do
begin
  j:=square(root(i));
end;
```

## 114 2.1 Curabitur dictum felis id sapien

115 Curabitur dictum Corollary 3 felis id sapien Corollary 3 mollis ut venenatis tortor feugiat.  
 116 Curabitur sed velit diam. Integer aliquam, nunc ac egestas lacinia, nibh est vehicula nibh, ac  
 117 auctor velit tellus non arcu. Vestibulum lacinia ipsum vitae nisi ultrices eget gravida turpis  
 118 laoreet. Duis rutrum dapibus ornare. Nulla vehicula vulputate iaculis. Proin a consequat  
 119 neque. Donec ut rutrum urna. Morbi scelerisque turpis sed elit sagittis eu scelerisque quam  
 120 condimentum. Pellentesque habitant morbi tristique senectus et netus et malesuada fames  
 121 ac turpis egestas. Aenean nec faucibus leo. Cras ut nisl odio, non tincidunt lorem. Integer  
 122 purus ligula, venenatis et convallis lacinia, scelerisque at erat. Fusce risus libero, convallis at  
 123 fermentum in, dignissim sed sem. Ut dapibus orci vitae nisl viverra nec adipiscing tortor  
 124 condimentum [1]. Donec non suscipit lorem. Nam sit amet enim vitae nisl accumsan pretium.

## 125 2.2 Proin ac fermentum augue

126 Proin ac fermentum augue. Nullam bibendum enim sollicitudin tellus egestas lacinia euismod  
 127 orci mollis. Nulla facilisi. Vivamus volutpat venenatis sapien, vitae feugiat arcu fringilla ac.  
 128 Mauris sapien tortor, sagittis eget auctor at, vulputate pharetra magna. Sed congue, dui  
 129 nec vulputate convallis, sem nunc adipiscing dui, vel venenatis mauris sem in dui. Praesent  
 130 a pretium quam. Mauris non mauris sit amet eros rutrum aliquam id ut sapien. Nulla  
 131 aliquet fringilla sagittis. Pellentesque eu metus posuere nunc tincidunt dignissim in tempor  
 132 dolor. Nulla cursus aliquet enim. Cras sapien risus, accumsan eu cursus ut, commodo vel  
 133 velit. Praesent aliquet consectetur ligula, vitae iaculis ligula interdum vel. Integer faucibus  
 134 faucibus felis.

- 135 ■ Ut vitae diam augue.
- 136 ■ Integer lacus ante, pellentesque sed sollicitudin et, pulvinar adipiscing sem.
- 137 ■ Maecenas facilisis, leo quis tincidunt egestas, magna ipsum condimentum orci, vitae  
 138 facilisis nibh turpis et elit.

139 ■ Remark 5. content... ■

## 140 3 Pellentesque quis tortor

141 Nec urna malesuada sollicitudin. Nulla facilisi. Vivamus aliquam tempus ligula eget ornare.  
 142 Praesent eget magna ut turpis mattis cursus. Aliquam vel condimentum orci. Nunc congue,  
 143 libero in gravida convallis [3], orci nibh sodales quam, id egestas felis mi nec nisi. Suspendisse  
 144 tincidunt, est ac vestibulum posuere, justo odio bibendum urna, rutrum bibendum dolor sem  
 145 nec tellus.

146 ■ **Lemma 6** (Quisque blandit tempus nunc). *Sed interdum nisl pretium non. Mauris sodales  
 147 consequat risus vel consectetur. Aliquam erat volutpat. Nunc sed sapien ligula. Proin faucibus  
 148 sapien luctus nisl feugiat convallis faucibus elit cursus. Nunc vestibulum nunc ac massa*

pretium pharetra. Nulla facilisis turpis id augue venenatis blandit. Cum sociis natoque  
penatibus et magnis dis parturient montes, nascetur ridiculus mus.

Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam  
vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit  
amet neque.

**A Morbi eros magna**

Morbi eros magna, vestibulum non posuere non, porta eu quam. Maecenas vitae orci risus,  
eget imperdiet mauris. Donec massa mauris, pellentesque vel lobortis eu, molestie ac turpis.  
Sed condimentum convallis dolor, a dignissim est ultrices eu. Donec consectetur volutpat  
eros, et ornare dui ultricies id. Vivamus eu augue eget dolor euismod ultrices et sit amet nisi.  
Vivamus malesuada leo ac leo ullamcorper tempor. Donec justo mi, tempor vitae aliquet non,  
faucibus eu lacus. Donec dictum gravida neque, non porta turpis imperdiet eget. Curabitur  
quis euismod ligula.

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**A Styles of lists, enumerations, and descriptions**

List of different predefined enumeration styles:

- `\begin{itemize}...\end{itemize}`
- `...`
- `...`
- `1. \begin{enumerate}...\end{enumerate}`
- `2. ...`
- `3. ...`
- `(a) \begin{alphaenumerate}...\end{alphaenumerate}`
- `(b) ...`
- `(c) ...`
- `(i) \begin{romanenumerate}...\end{romanenumerate}`
- `(ii) ...`
- `(iii) ...`
- `(1) \begin{bracketenumerate}...\end{bracketenumerate}`

188 (2) ...

189 (3) ...

190 **Description 1** \begin{description} \item[Description 1] ... \end{description}

191 **Description 2** Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.

192 Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus  
193 massa sit amet neque.

194 **Description 3** ...

195 Proposition 10 and Proposition 10 ...

## 196 B Theorem-like environments

c:theorem-environments)? List of different predefined enumeration styles:

?<testenv-theorem>? **Theorem 7.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo  
198 dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus  
199 massa sit amet neque.*

?<testenv-lemma>? **Lemma 8.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.  
201 Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa  
202 sit amet neque.*

?<testenv-corollary>? **Corollary 9.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo  
204 dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus  
205 massa sit amet neque.*

<testenv-proposition>? **Proposition 10.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et  
207 leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus  
208 massa sit amet neque.*

?<testenv-exercise>? **Exercise 11.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo  
210 dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus  
211 massa sit amet neque.*

?<testenv-definition>? **Definition 12.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo  
213 dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus  
214 massa sit amet neque.*

?<testenv-example>? **Example 13.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo  
216 dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus  
217 massa sit amet neque.*

?<testenv-note>? **Note 14.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.  
219 Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa  
220 sit amet neque.*

■ **Note.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam  
222 vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit  
223 amet neque.*

?<testenv-remark>? **Remark 15.** *Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui.  
225 Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa  
226 sit amet neque.*

Remark. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.

Claim 16. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.

Claim. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.

Proof. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.

Proof. Fusce eu leo nisi. Cras eget orci neque, eleifend dapibus felis. Duis et leo dui. Nam vulputate, velit et laoreet porttitor, quam arcu facilisis dui, sed malesuada risus massa sit amet neque.

C Special Symbols

