

# **Come on! Let's be friends with algorithms! (1)**

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**2015/1394**



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| سرشناسه             | : رئیس، سید محمدعلی، ۱۳۵۳-                                                                |
| عنوان و نام پدیدآور | : Come on! Let's be friends with algorithms                                               |
| مشخصات نشر          | : رودسر: نشر جیسا، ۱۳۹۴.                                                                  |
| مشخصات ظاهری        | : ۲۴ ص: مصور (بخشی رنگی).                                                                 |
| شابک                | : ۵-۱۱-۷۳۵۸-۶۰۰-۹۷۸-۴۵۰۰۰ ریال                                                            |
| وضعیت فهرست نویسی   | : فنیای مختصر                                                                             |
| یادداشت             | : این مدرک در آدرس <a href="http://opac.nlai.ir">http://opac.nlai.ir</a> قابل دسترسی است. |
| شناسه افزوده        | : رئیس رودسری، سید محمد رضا، ۱۳۵۱-، مترجم                                                 |
| شناسه افزوده        | : رئیس رودسری، سیده نکم، ۱۳۶۰- تصویرگر                                                    |
| شماره کتابشناسی ملی | : ۳۷۷۲۵۰۱                                                                                 |

نام کتاب: (1) Come on ! Let's be friends with algorithms!

نویسنده: دکتر سید محمد علی رئیس

نوبت چاپ: اول

شمارگان: ۱۰۰۰ نسخه

تایپ: ره پویان اندیشه و هنر

چاپ: یکا

صفحه بندی و تنظیم: مهدیه اسماعیل کردی

شابک: ۵-۱۱-۷۳۵۸-۶۰۰-۹۷۸-۴۵۰۰۰

قیمت: ۴۵۰۰۰ ریال

نشر جیسا - رودسر - انتهای خیابان بسیج - مرکز رشد واحدهای فن آور - طبقه دوم



تلفن: ۴۲۶۱۶۱۳۶ - ۴۲۶۱۰۶۱۷ - ۰۹۱۲۱۳۲۵۰۱۲ - ۰۹۳۶۱۷۳۱۴۴۸

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## Preface

The book “Come on! Let's be friends with algorithms! (1)” is a simple book prepared for elementary conception and presentation of algorithm to families. As well as providing a clear explanation of the principles of algorithms, the book gives step-by-step methods of learning in order to be more useful for both young learners and their parents.

It is clear that solving complicated problems is possible through their simplification, and finally all problems will end up being simple problems!

The human brain naturally probes even basic problems in various ways. How many ways is not our interest here, but for certain, the “Algorithm” as a set of conceptual methods is used by people whether they are aware of it or not! We all use algorithms naturally.

One of the fundamental aims of this book is to explicitly introduce the framework of algorithms to the new generation. During my last decade teaching mathematics and programming in universities and institutes of higher education; I found that our children at even very young ages are able to understand many concepts and fundamental methods of thinking, so it is better not to delay introducing the algorithm, and equipping them with thinking instruments beforehand. In this way, if we are successful, then we have found a way that children will be able to pluralize problems more easily, and that will increase their speed of analyzing and processing.

Other features of this book are devoted to cultural issues like “contentment” and “training children to manage their sources”, “culture of studying”, and “getting more familiar with books”, and to try to make family members more aware of the development of the learning and thinking process.

Standard symbols and terms have been used intentionally to prepare your children's minds for more complicated algorithms in higher education grades.

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**23.01.2015**

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